


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING					FORM 3 AMENDED REPORT <input type="checkbox"/>	
APPLICATION FOR PERMIT TO DRILL				1. WELL NAME and NUMBER NBU 921-25G3CS		
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>				3. FIELD OR WILDCAT NATURAL BUTTES		
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO				5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES		
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.				7. OPERATOR PHONE 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 1189 ST		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		
13. NAME OF SURFACE OWNER (if box 12 = 'fee')				14. SURFACE OWNER PHONE (if box 12 = 'fee')		
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')				16. SURFACE OWNER E-MAIL (if box 12 = 'fee')		
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2606 FSL 2587 FEL	NWSE	25	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	2530 FNL 2518 FEL	SWNE	25	9.0 S	21.0 E	S
At Total Depth	2530 FNL 2518 FEL	SWNE	25	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 2518		23. NUMBER OF ACRES IN DRILLING UNIT 240		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 111		26. PROPOSED DEPTH MD: 9624 TVD: 9618		
27. ELEVATION - GROUND LEVEL 4930		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		
ATTACHMENTS						
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES						
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER			<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN			
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)			<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER			
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)			<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP			
NAME Danielle Piernot		TITLE Regulatory Analyst		PHONE 720 929-6156		
SIGNATURE		DATE 08/17/2010		EMAIL gnbregulatory@anadarko.com		
API NUMBER ASSIGNED 43047512750000		APPROVAL  Permit Manager				

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9624		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttreass	9624	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2360		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2360	28.0			

NBU 921-25G3CS

Pad: NBU 921-25J2

Surface: 2,606' FSL 2,587' FEL (NW/4SE/4)

BHL: 2,530' FNL 2,518' FEL (SW/4NE/4)

Section 25 T9S R21E

Uintah County, Utah

Mineral Lease: UO 1189 ST

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,447'	
Birds Nest	1,740'	Water
Mahogany	2,114'	Water
Wasatch	4,700'	Gas
Mesaverde	7,385'	Gas
MVU2	8,293'	Gas
MVL1	8,850'	Gas
TVD	9,618'	
TD	9,624'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,618' TVD, approximately equals 6,092 psi (calculated at 0.63 psi/foot).

Maximum anticipated surface pressure equals approximately 3,976 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	August 17, 2010	
WELL NAME	NBU 921-25G3CS				TD	9,618'	9,624' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,930'
SURFACE LOCATION	NW/4 SE/4	2,606' FSL	2,587' FEL	Sec 25	T 9S	R 21E	
	Latitude:	40.006925	Longitude:	-109.499205		NAD 27	
BTM HOLE LOCATION	SW/4 NE/4	2,530' FNL	2,518' FEL	Sec 25	T 9S	R 21E	
	Latitude:	40.007354	Longitude:	-109.498959		NAD 27	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde						
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.						

NBU 921-25G3CS Drilling Progam Directional Well-updated 072910.xls



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,360	28.00	IJ-55	LTC	0.83	1.70	5.21
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,624	11.60	I-80	BTC	1.90	1.02	2.85

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.28

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.4 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,976 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.4 ppg)

0.63 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,092 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	TAIL	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2	LEAD	1,860'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,194'	Premium Lite II +0.25 pps	300	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,430'	50/50 Poz/G + 10% salt + 2% gel	1,050	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

John Huycke / Emile Goodwin

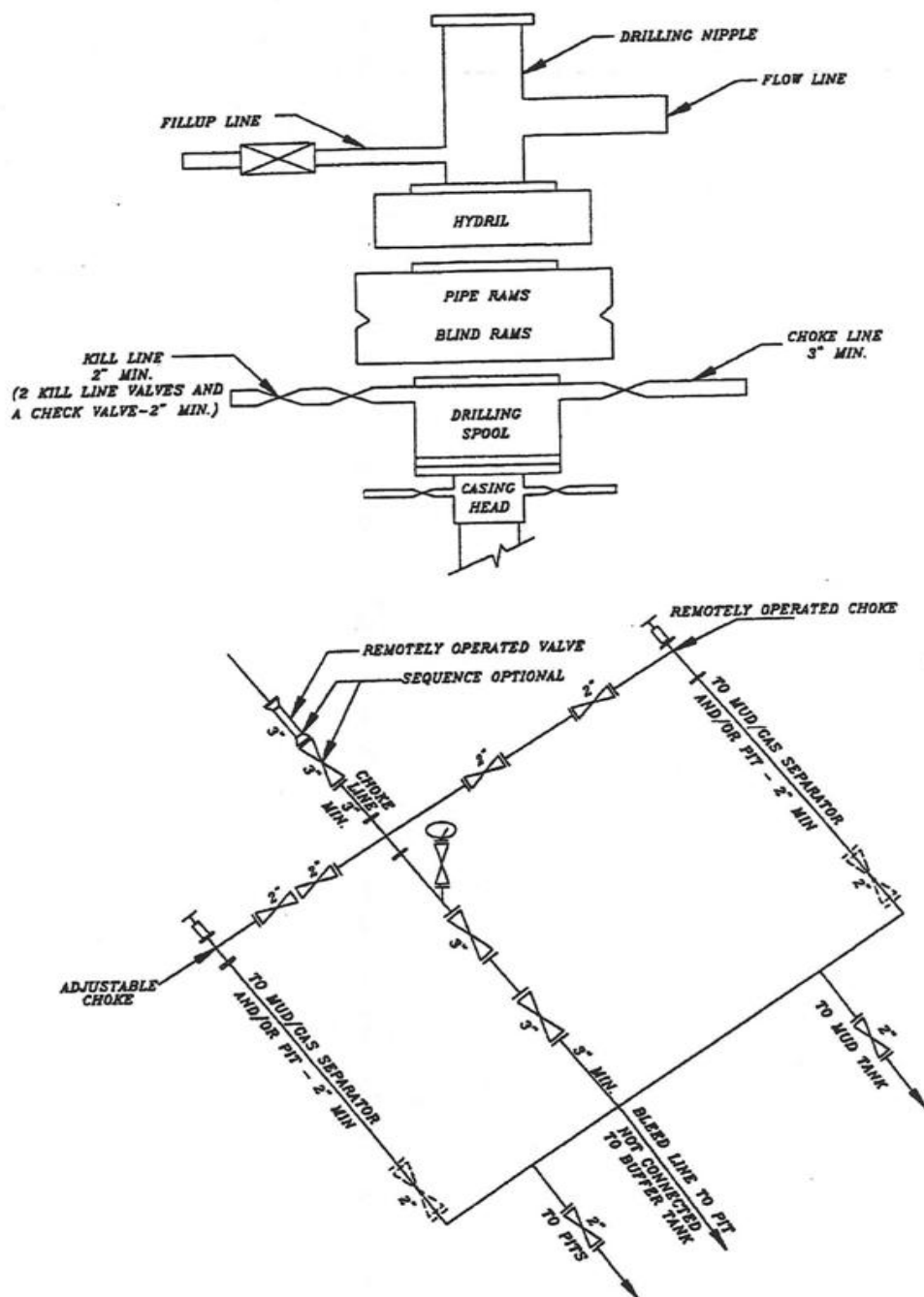
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

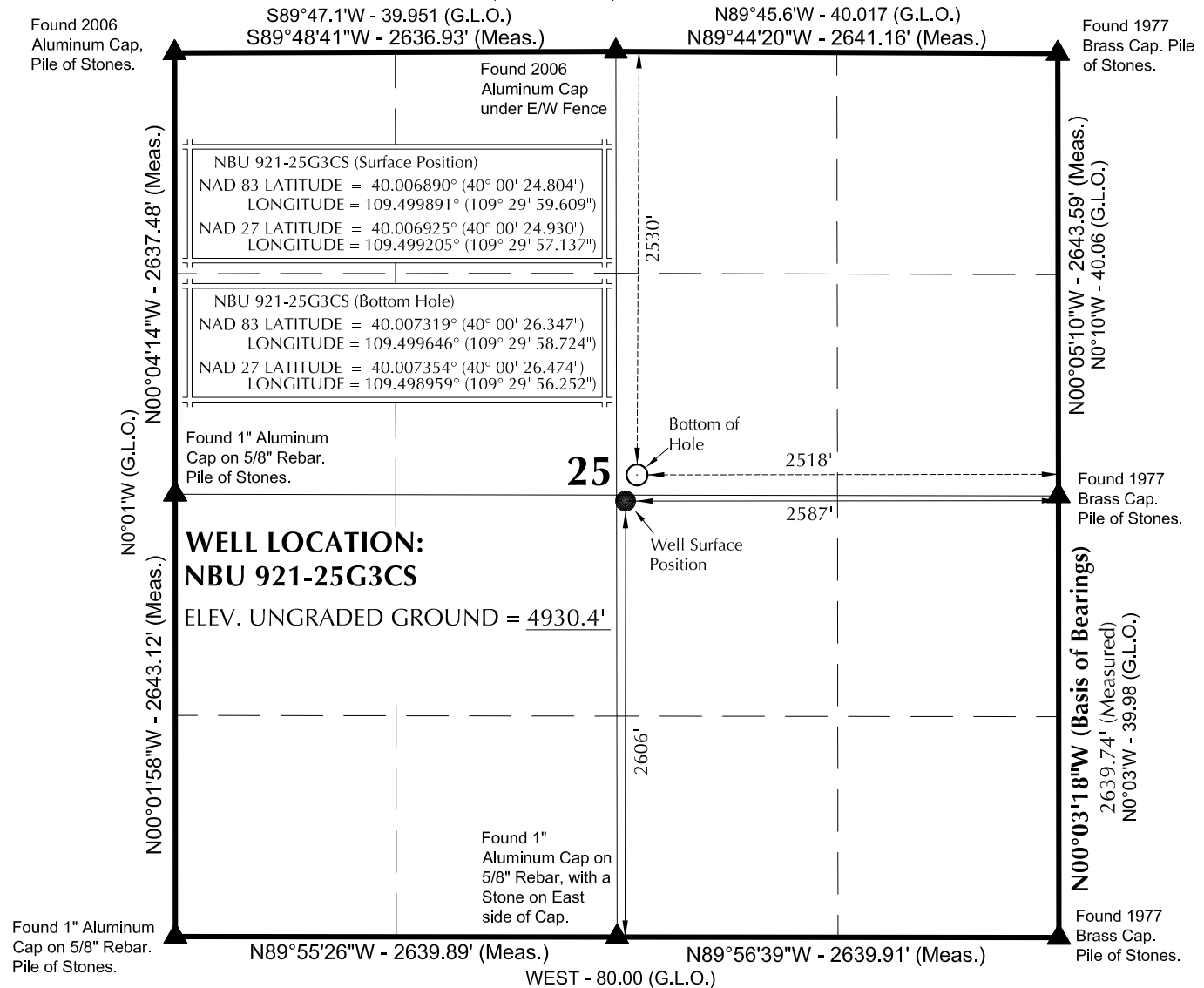
DATE:

EXHIBIT A NBU 921-25G3CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains.
1 chain = 66 feet.
- 3. The Bottom of hole bears N23°49'21"E 170.73' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

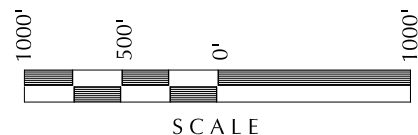
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD: NBU 921-25J2

NBU 921-25G3CS
WELL PLAT
2530' FNL, 2518' FEL (Bottom Hole)
SW ¼ NE ¼ OF SECTION 25, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

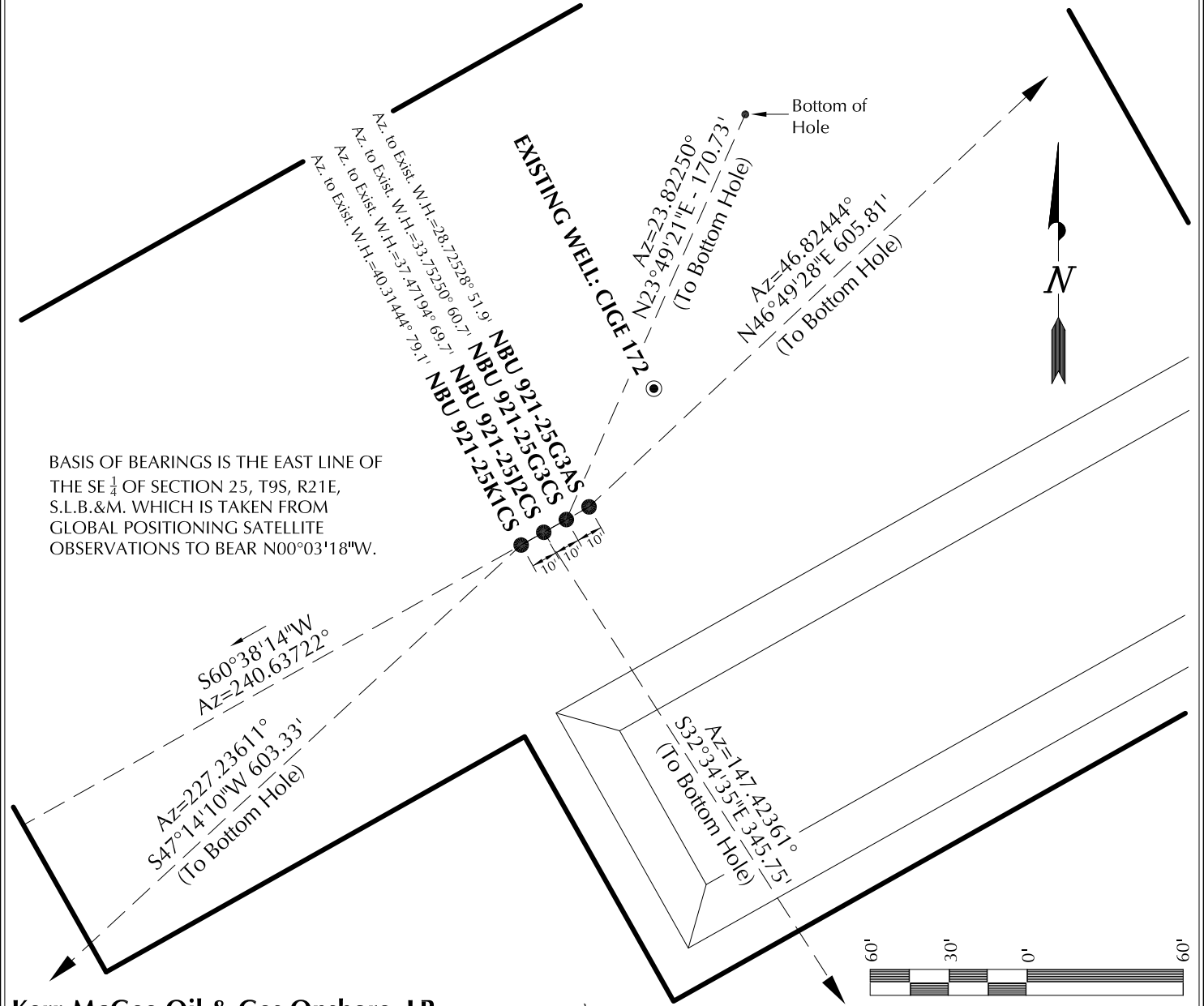
John R. Slaght
No. 6028691
JOHN R. SLAGHT
PROFESSIONAL LAND SURVEYOR
REGISTRATION NO. 6028691
STATE OF UTAH

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-08-10	SURVEYED BY: M.S.B.	SHEET NO: 3 3 OF 16
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
SCALE: 1" = 1000'	Date Last Revised: 06-09-10 K.O.B.	

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-25K1CS	40°00'24.707"	109°29'59.833"	40°00'24.833"	109°29'57.361"	2596' FSL	40°00'20.658"	109°30'05.521"	40°00'20.784"	109°30'03.049"	2186' FSL
	40.006863°	109.499954°	40.006898°	109.499267°	2605' FEL	40.005738°	109.501534°	40.005773°	109.500847°	2231' FWL
NBU 921-25J2CS	40°00'24.756"	109°29'59.721"	40°00'24.882"	109°29'57.249"	2601' FSL	40°00'21.878"	109°29'57.328"	40°00'22.004"	109°29'54.856"	2310' FSL
	40.006877°	109.499922°	40.006912°	109.499236°	2596' FEL	40.006077°	109.499258°	40.006112°	109.498571°	2410' FEL
NBU 921-25G3CS	40°00'24.804"	109°29'59.609"	40°00'24.930"	109°29'57.137"	2606' FSL	40°00'26.347"	109°29'58.724"	40°00'26.474"	109°29'56.252"	2530' FNL
	40.006890°	109.499891°	40.006925°	109.499205°	2587' FEL	40.007319°	109.499646°	40.007354°	109.498959°	2518' FEL
NBU 921-25G3AS	40°00'24.853"	109°29'59.496"	40°00'24.979"	109°29'57.025"	2611' FSL	40°00'28.950"	109°29'53.822"	40°00'29.076"	109°29'51.351"	2265' FNL
	40.006904°	109.499860°	40.006939°	109.499174°	2578' FEL	40.008042°	109.498284°	40.008077°	109.497597°	2136' FEL
CIGE 172	40°00'25.303"	109°29'59.176"	40°00'25.429"	109°29'56.704"	2636' FNL					
	40.007029°	109.499771°	40.007064°	109.499085°	2553' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole										
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	EAST
NBU 921-25K1CS	-409.7'	-442.9'	NBU 921-25J2CS	-291.4'	186.2'	NBU 921-25G3CS	156.2'	69.0'	NBU 921-25G3AS	414.5'



Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.

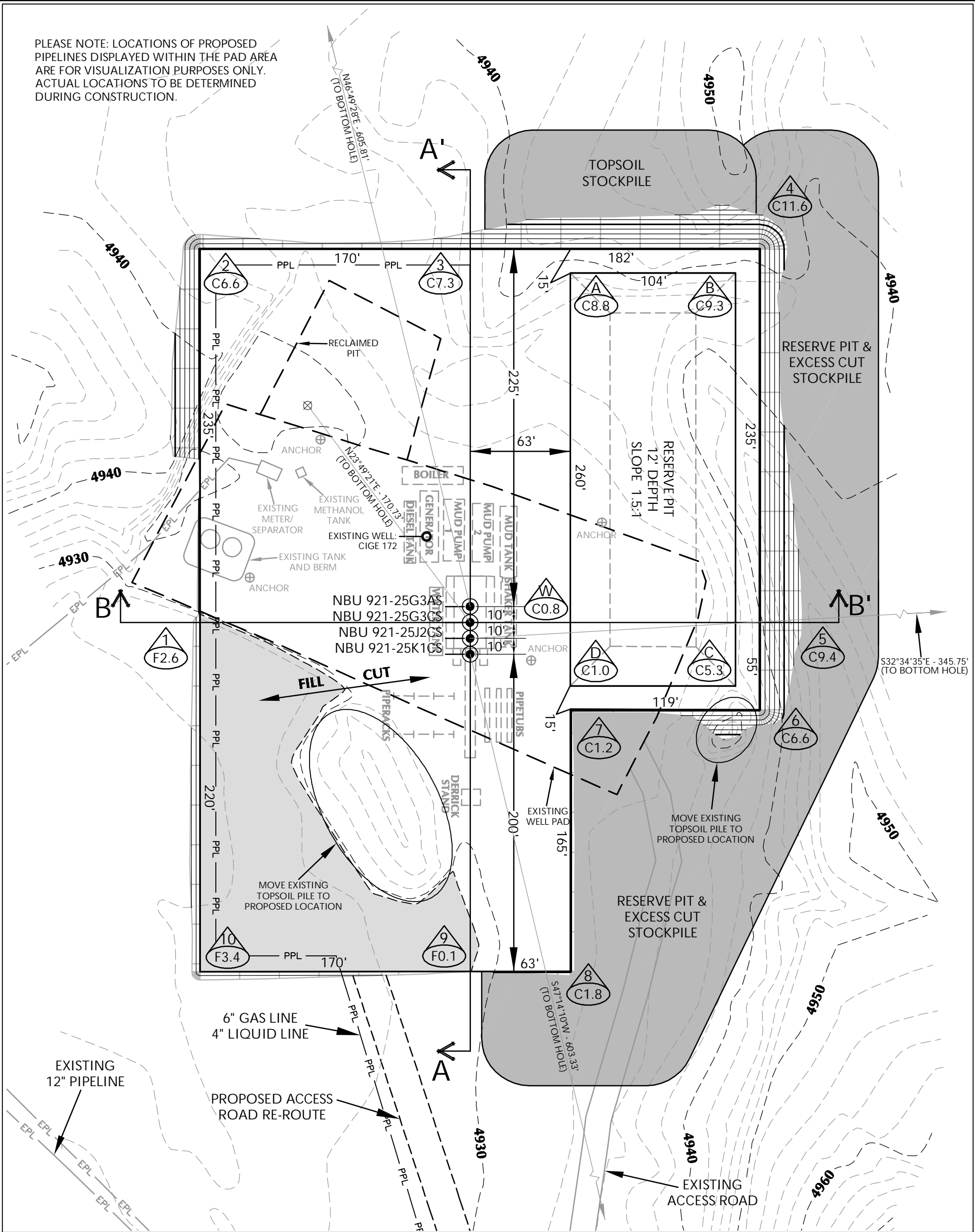


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DATE SURVEYED: 04-08-10	SURVEYED BY: M.S.B.	SHEET NO: 5 5 OF 16
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
SCALE: 1" = 60'	Date Last Revised: 06-09-10 K.O.B.	

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



WELL PAD - NBU 921-25J2 DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4930.4'
FINISHED GRADE ELEVATION = 4929.6'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.59 ACRES
TOTAL DAMAGE AREA = 6.69 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD - LOCATION LAYOUT
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS,
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
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Phone 307-674-0609
Fax 307-674-0182

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 14,665 C.Y.
TOTAL FILL FOR WELL PAD = 2,439 C.Y.
TOPSOIL @ 6" DEPTH = 2,099 C.Y.
EXCESS MATERIAL = 12,226 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 9,300 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 35,480 BARRELS

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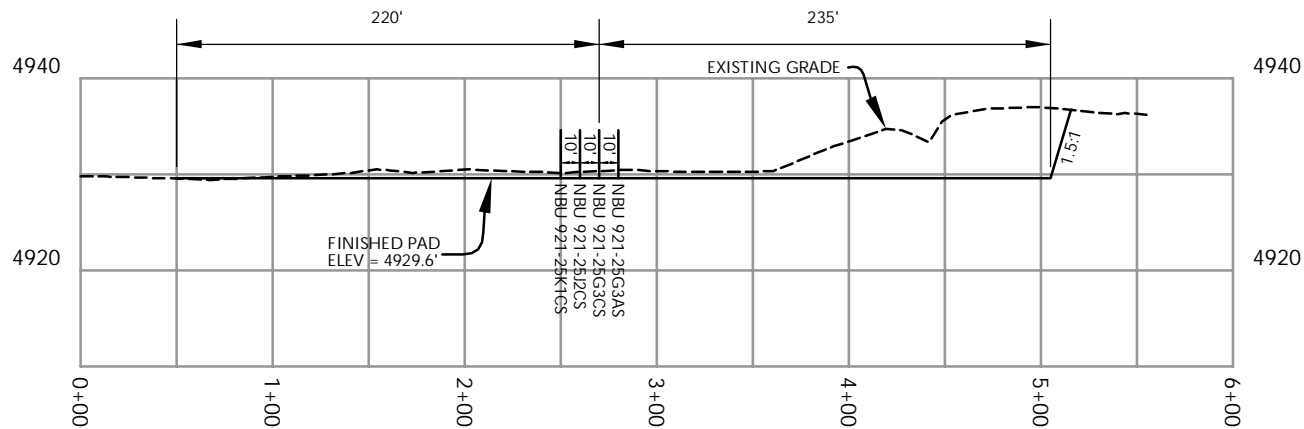
WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE

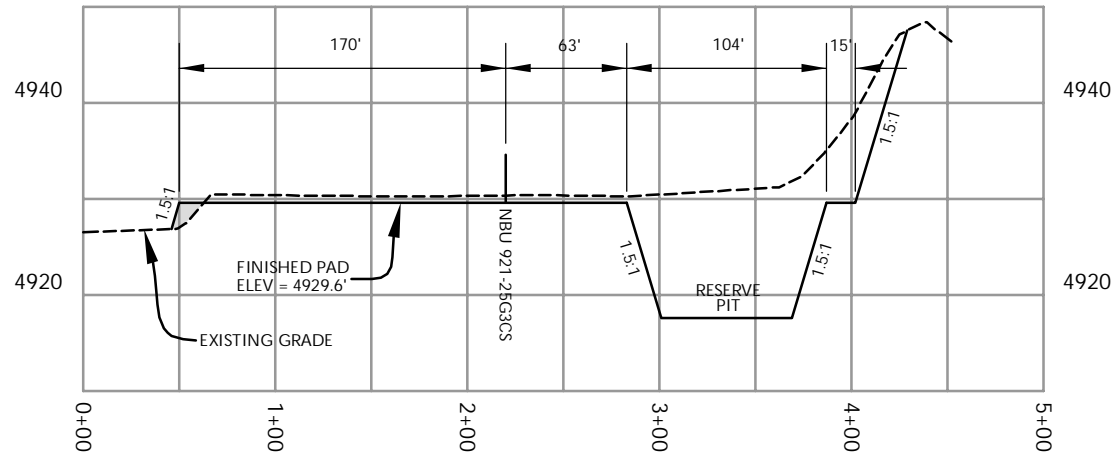


HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

Scale: 1"=60' Date: 5/12/10 SHEET NO: 6
REVISED: SEA 7/7/10 6 OF 16



CROSS SECTION A-A'



CROSS SECTION B-B'

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

WELL PAD - CROSS SECTIONS
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH



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Phone 307-674-0609
Fax 307-674-0182

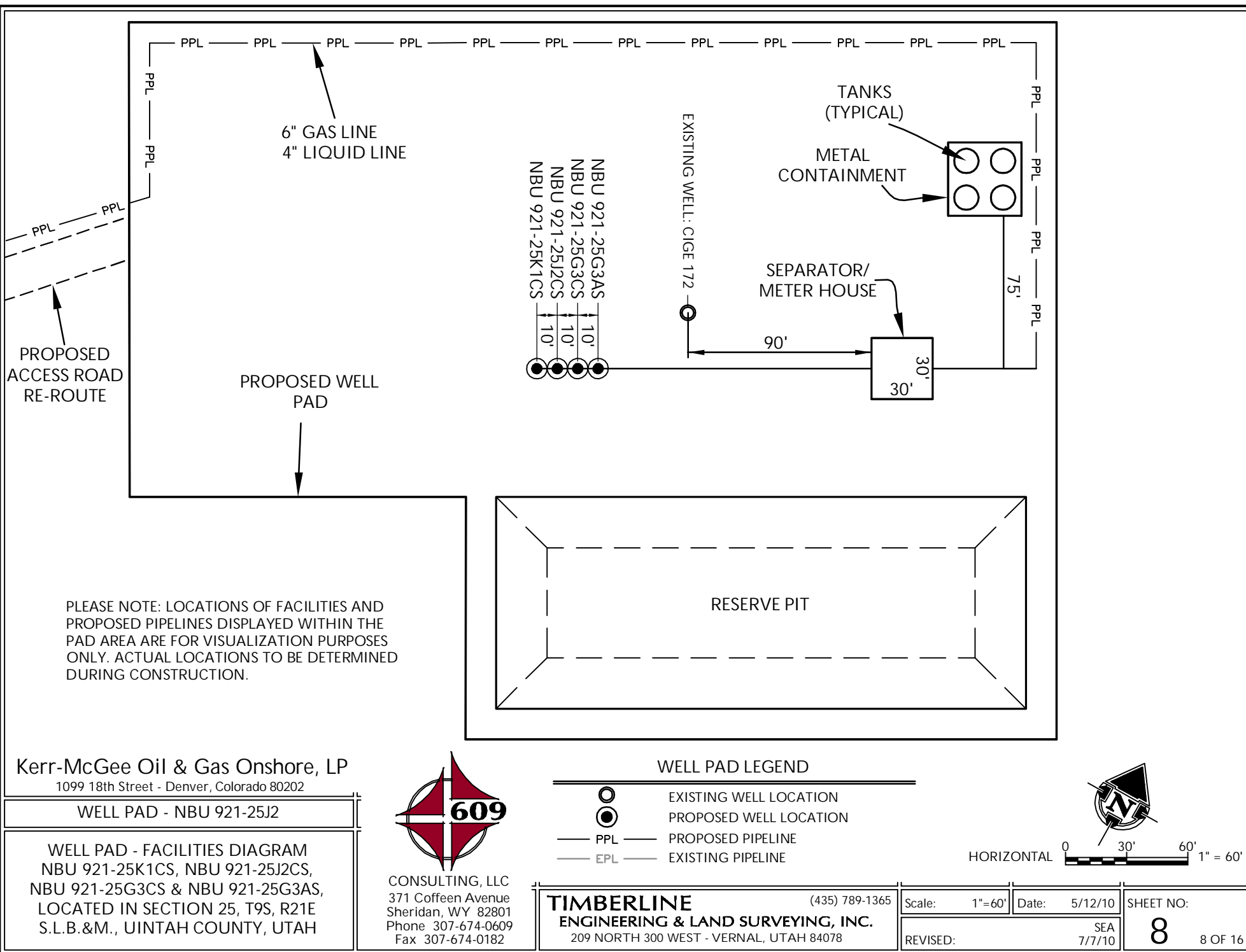
TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



Scale: 1"=100'	Date: 5/12/10	SHEET NO:
REVISED:	SEA 7/1/10	7 7 OF 16

'APIWellNo:43047512750000'
K:\MADARCO\2010_34_NBU_FOCUS_SEC_921-25J2\921-25J2_20100603.dwg 7/7/2010 2:58:05 PM



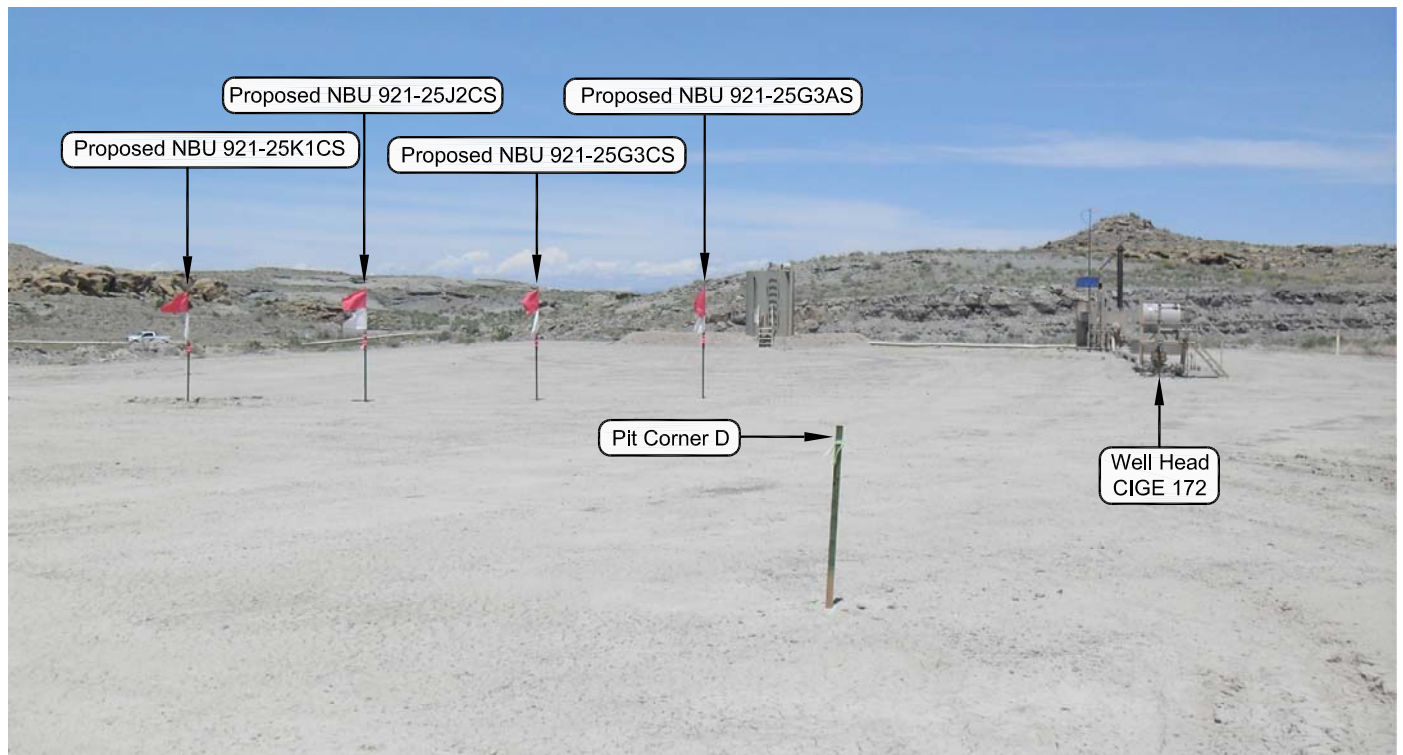


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 921-25J2

LOCATION PHOTOS
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



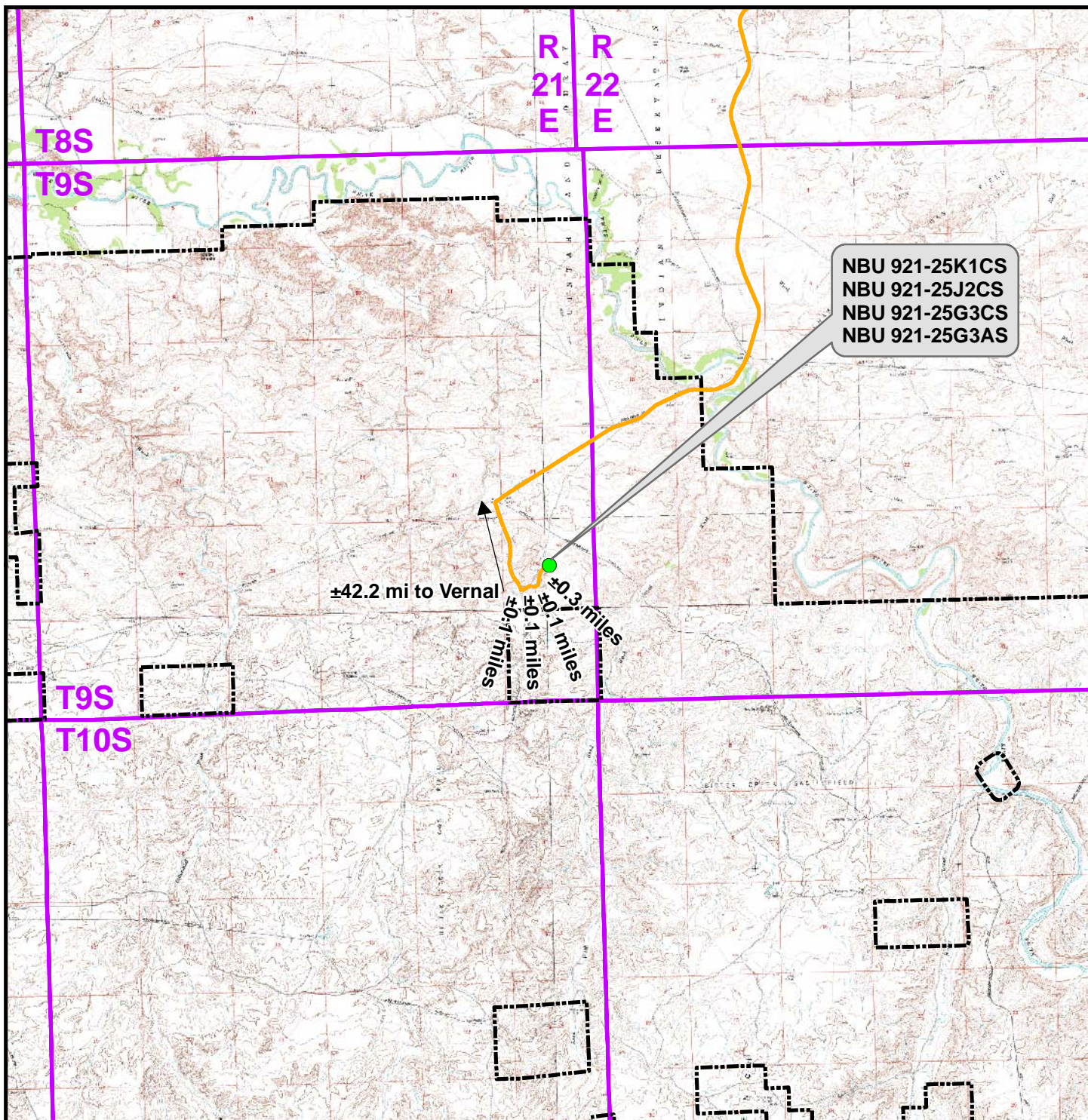
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 04-08-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 9 9 OF 16
DATE DRAWN: 04-12-10	DRAWN BY: M.W.W.	
Date Last Revised: 06-09-10 K.O.B.		



Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-25J2 To Unit Boundary: ±2,596ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO A

NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000

NAD83 USP Central

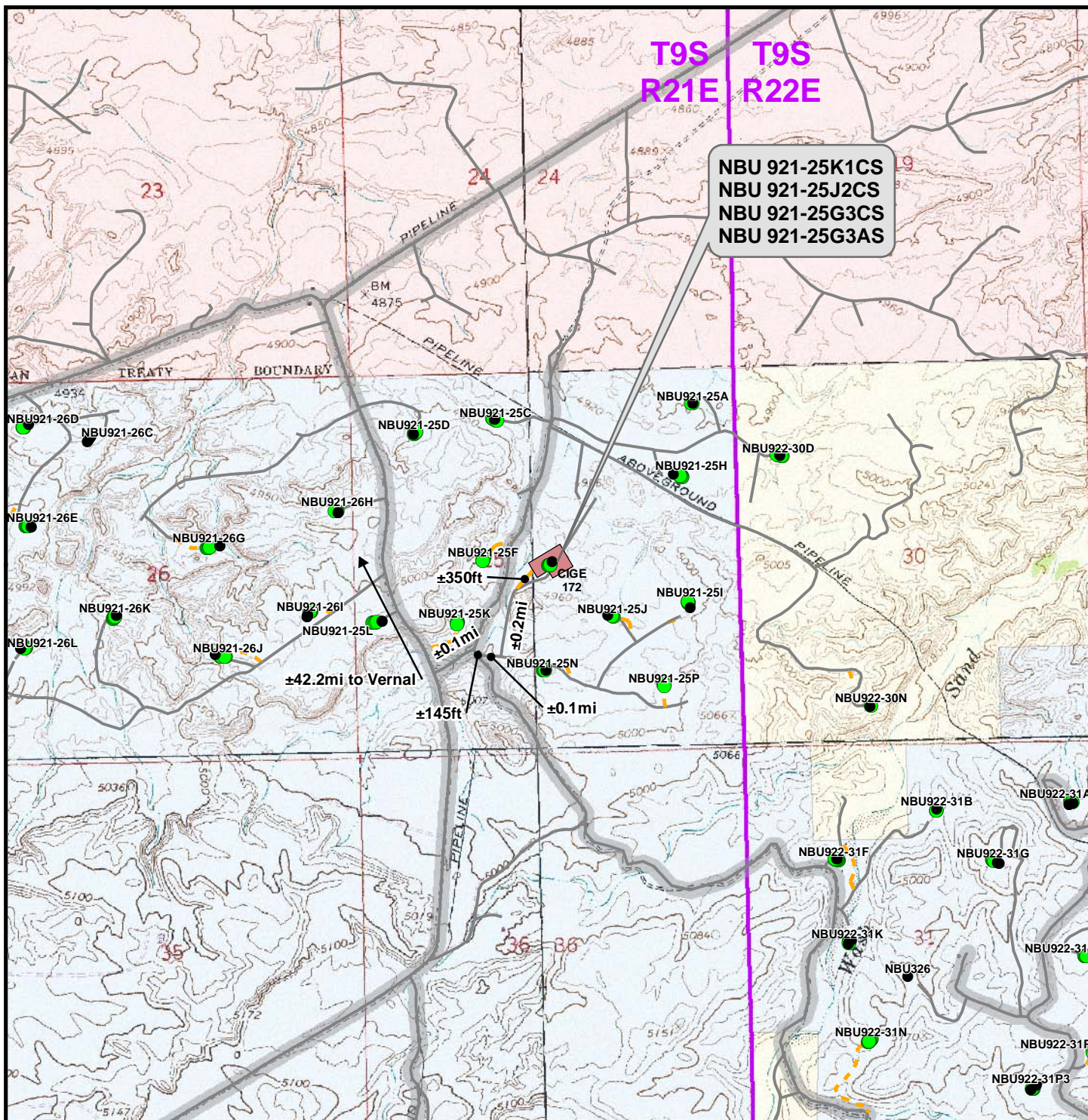
Sheet No:

Drawn: CPS
Revised: CPS

Date: 14 May 2010
Date: 7 July 2010

10

10 of 16



Legend

- | | | | | | |
|--|---|---|---|--|--|
| ● Well - Proposed | Well Pad | --- Road - Proposed | County Road | Bureau of Land Management | State |
| ● Well - Existing | --- Road - Existing | Indian Reservation | Private | | |

Total Proposed Road Re-Route Length: ±350ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO B

NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH



609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

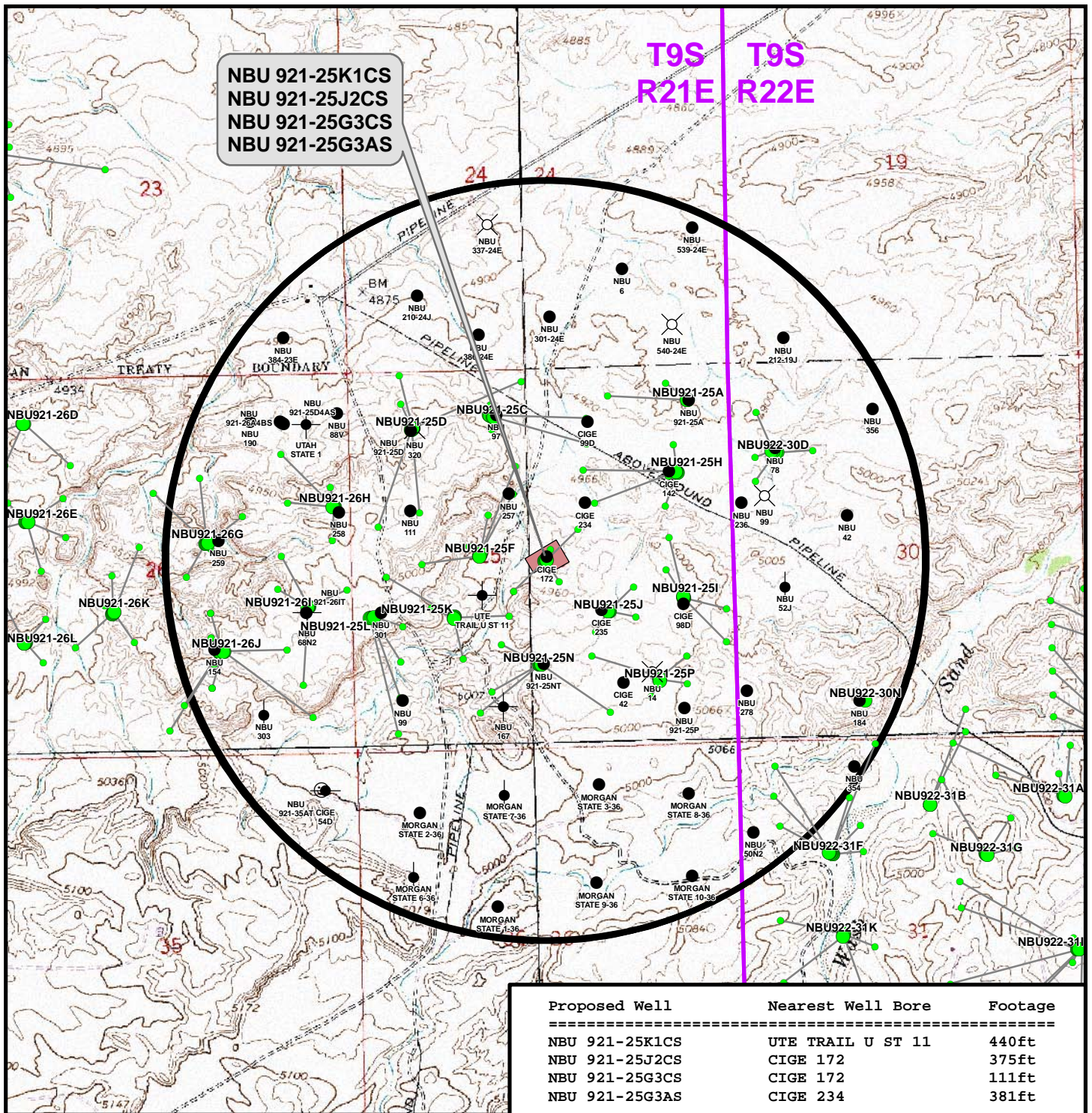


Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: CPS	Date: 14 May 2010
Revised: CPS	Date: 7 July 2010

Sheet No:

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Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO C

NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH



609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

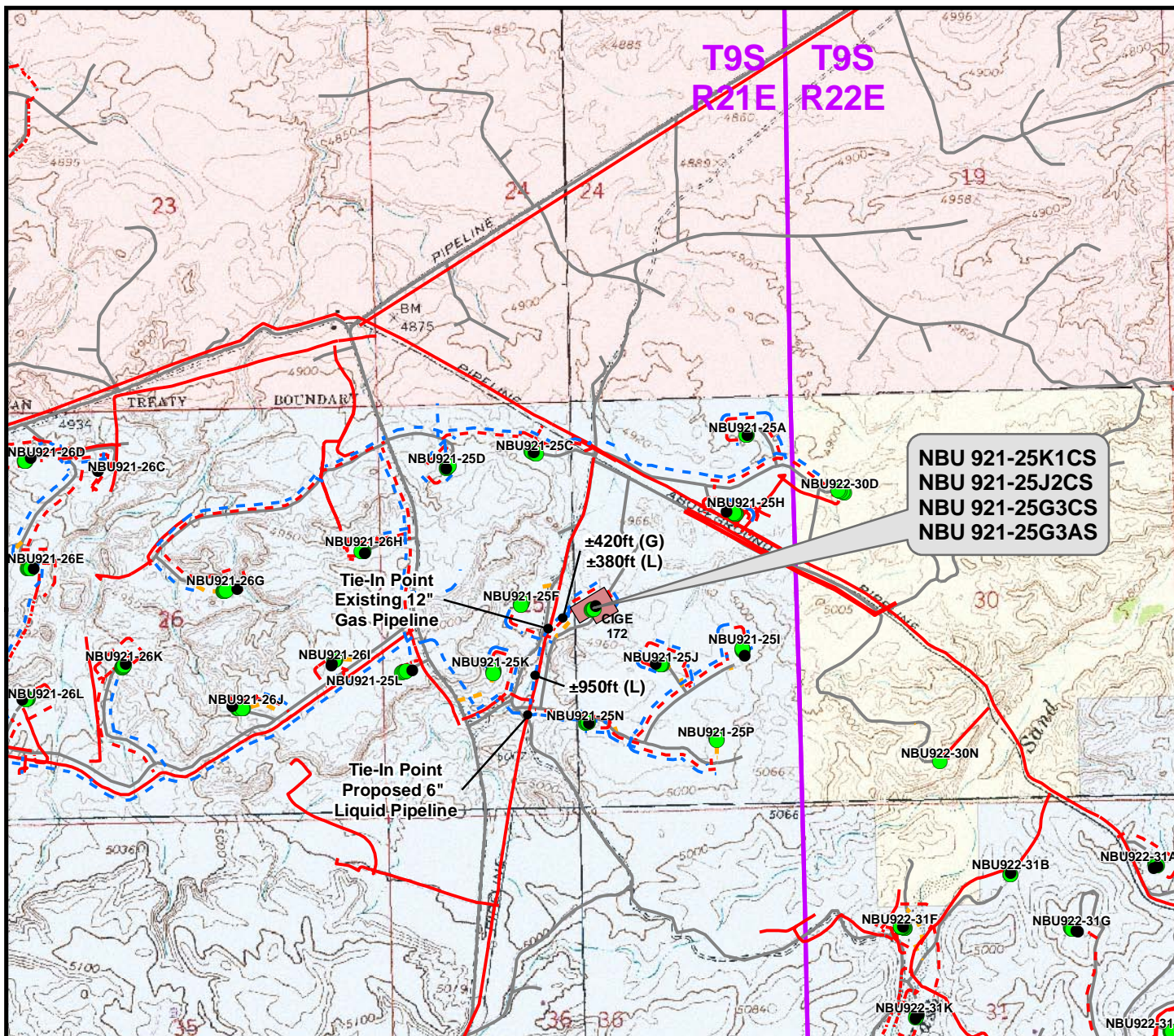
- Producing
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended

Scale: 1" = 2,000ft NAD83 USP Central

Drawn: CPS Date: 14 May 2010
Revised: JFE Date: 7 July 2010

Sheet No:

12 12 of 16



NBU 921-25K1CS
NBU 921-25J2CS
NBU 921-25G3CS
NBU 921-25G3AS

Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±770ft
Proposed 4" (Edge of Pad to Main Road Intersection)	±1,330ft
TOTAL PROPOSED LIQUID PIPELINE =	± 2,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±770ft
Proposed 6" (Edge of Pad to Existing 12" Pipeline)	±420ft
TOTAL PROPOSED GAS PIPELINE =	±1,190ft

Legend

- Well - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - To Be Upgraded - - - Road - Existing Indian Reservation
- Well Pad - - - Gas Pipeline - Existing - - - Liquid Pipeline - Existing - - - Road - Existing State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

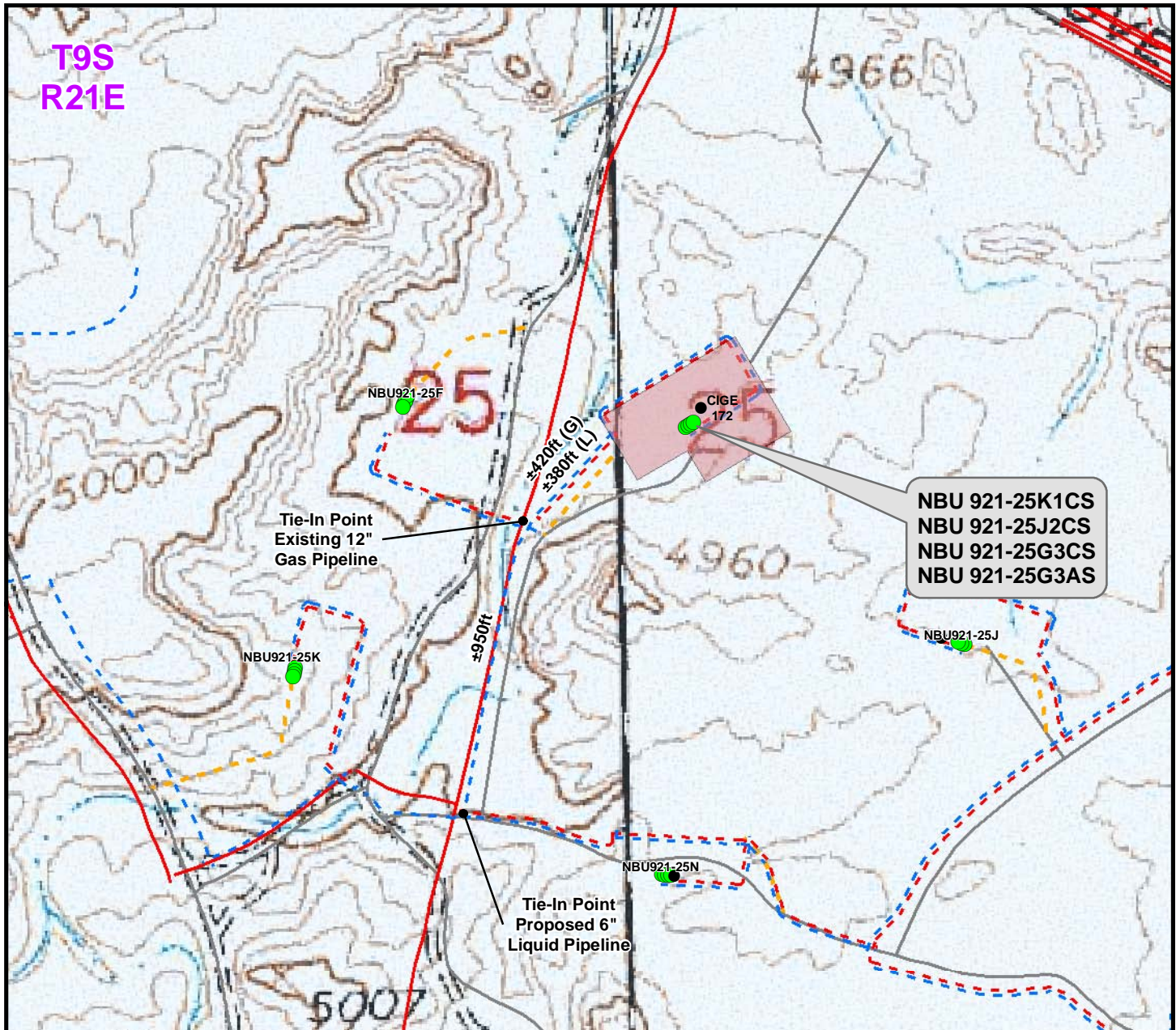
TOPO D
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft NAD83 USP Central
Drawn: CPS Date: 14 May 2010
Revised: CPS Date: 7 July 2010

Sheet No:
13 13 of 16



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±770ft
Proposed 4" (Edge of Pad to Main Road Intersection)	±1,330ft
TOTAL PROPOSED LIQUID PIPELINE =	± 2,100ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±770ft
Proposed 6" (Edge of Pad to Existing 12" Pipeline)	±420ft
TOTAL PROPOSED GAS PIPELINE =	±1,190ft

Legend

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	- - - Road - Proposed	Yellow Box Bureau of Land Management
● Well - Existing	- - - Gas Pipeline - To Be Upgraded	- - - Liquid Pipeline - To Be Upgraded	- - - Road - Existing	Pink Box Indian Reservation
Red Box Well Pad	- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing		Blue Box State
				White Box Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

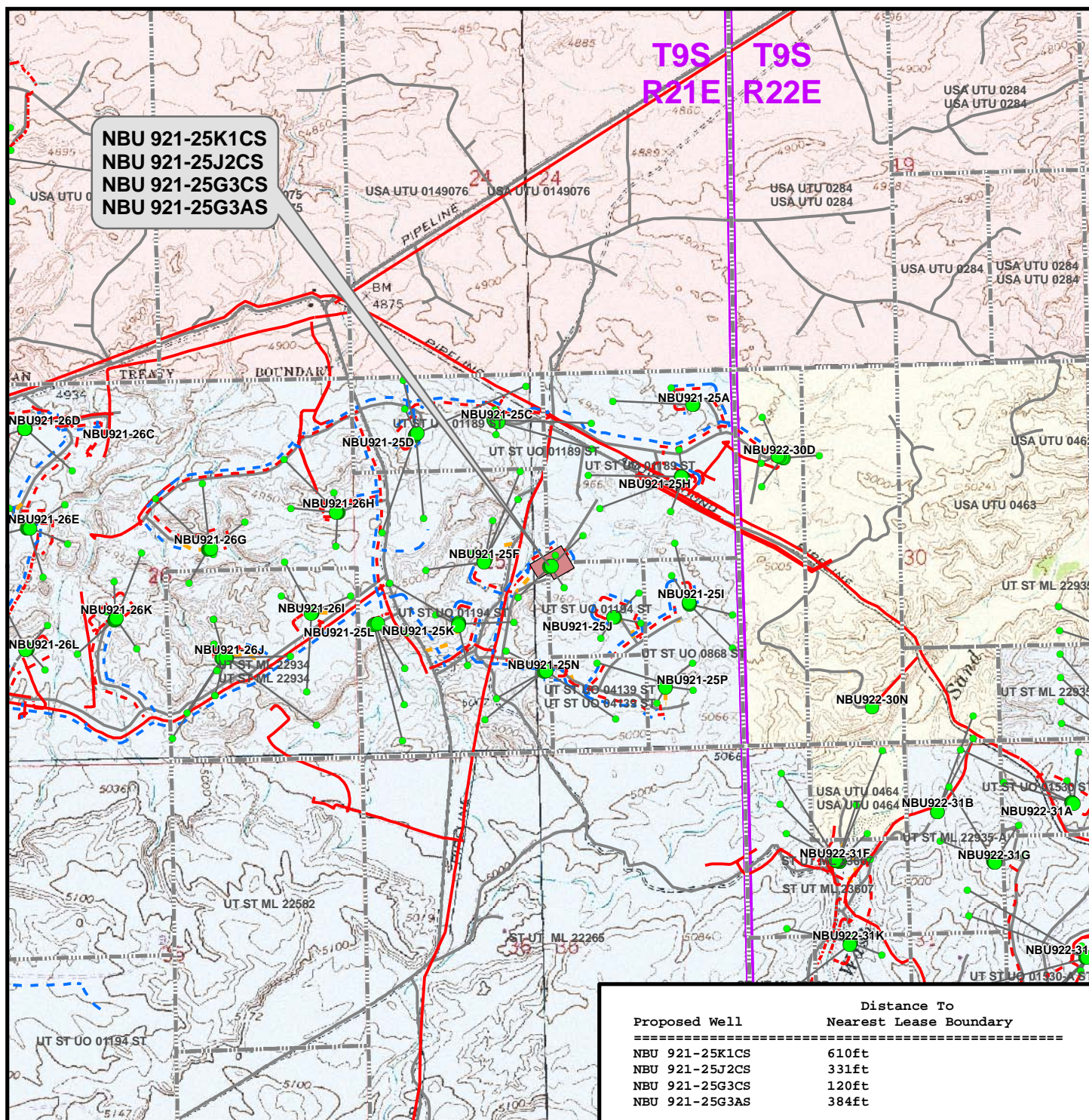
WELL PAD - NBU 921-25J2

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., Uintah County, Utah



Scale: 1" = 500ft	NAD83 USP Central
Drawn: CPS	Date: 14 May 2010
Revised: CPS	Date: 7 July 2010

Sheet No:
14 14 of 16



Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Lease Boundary
- Gas Pipeline - Proposed
- Gas Pipeline - To Be Upgraded
- Gas Pipeline - Existing
- Liquid Pipeline - Proposed
- Liquid Pipeline - To Be Upgraded
- Liquid Pipeline - Existing
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25J2

TOPO E

NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH COUNTY, UTAH

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2,000ft NAD83 USP Central
Drawn: CPS Date: 14 May 2010
Revised: CPS Date: 7 July 2010

Sheet No:

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**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-25J2
WELLS – NBU 921-25K1CS, NBU 921-25J2CS,
NBU 921-25G3CS & NBU 921-25G3AS
Section 25, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 145 feet to a service road to the east. Exit left and proceed in an easterly direction along service road approximately 0.1 miles to a second service road to the north. Exit left and proceed in a northerly direction along second service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.7 miles in a southerly direction.

'APIWellNo:43047512750000'



Project: Uintah County, UT UTM12
 Site: NBU 921-25J2 Pad
 Well: NBU 921-25G3CS
 Wellbore: OH
 Design: PLAN #1



WELL DETAILS: NBU 921-25G3CS

GL 4930 & RKB 14
 @ 4944.00ft ASSUMED

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14532105.06	2060692.75	40° 0' 24.930 N	109° 29' 57.138 W

DESIGN TARGET DETAILS

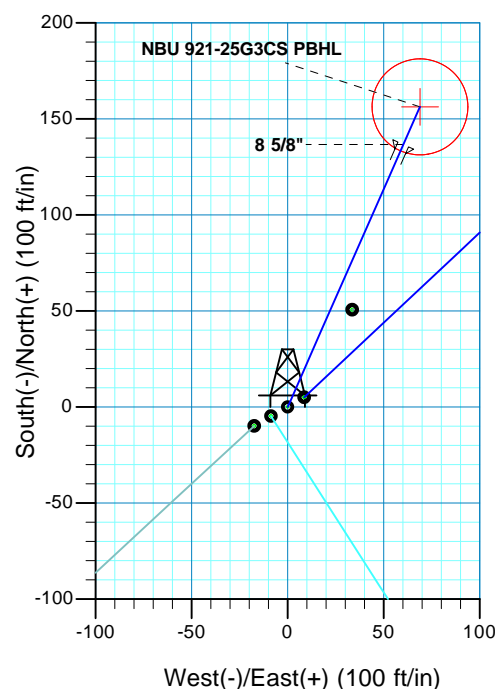
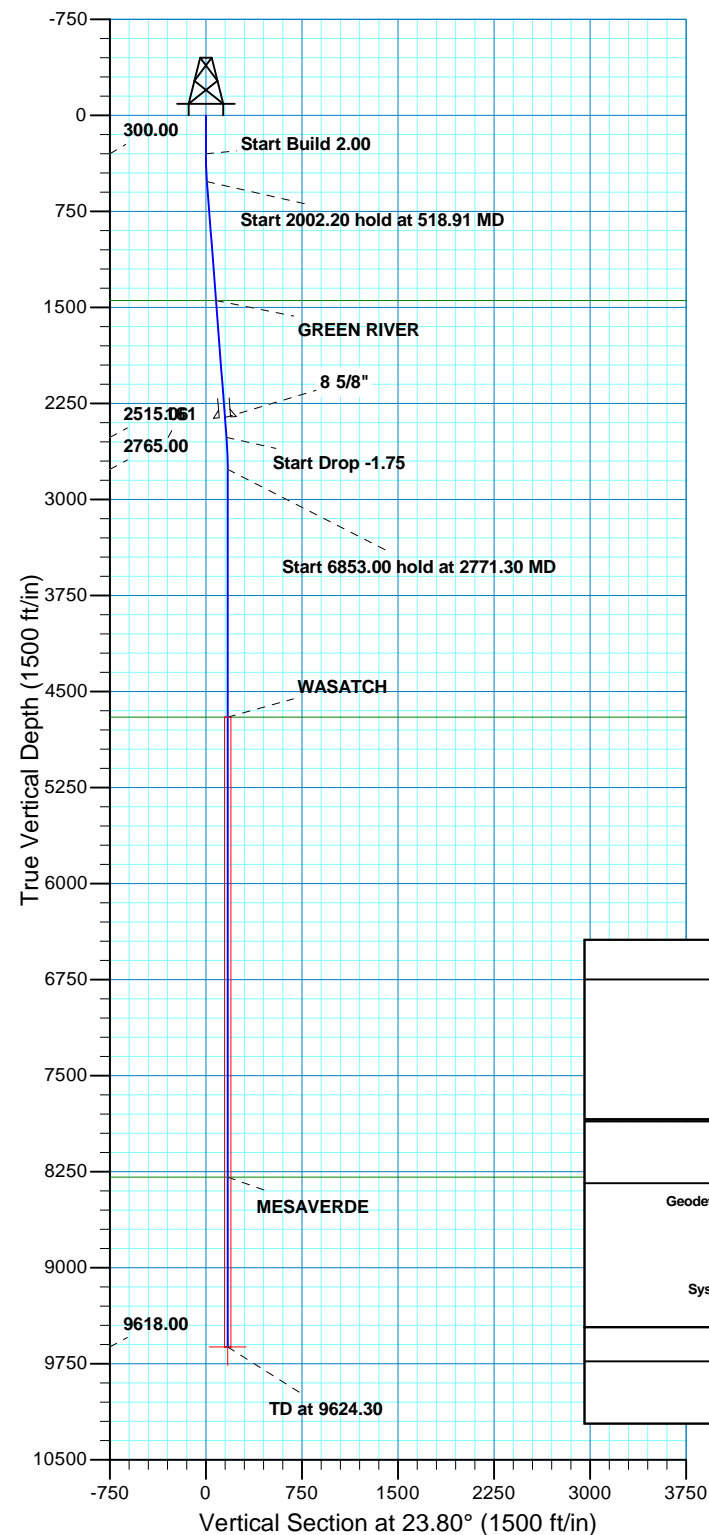
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9618.00	156.25	68.90	14532262.45	2060759.01	40° 0' 26.474 N	109° 29' 56.252 W	Circle (Radius: 25.00)

- plan hits target center



Azimuths to True North
 Magnetic North: 11.18°

Magnetic Field
 Strength: 52416.9snT
 Dip Angle: 65.90°
 Date: 08/12/2010
 Model: IGRF2010



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
518.91	4.38	23.80	518.70	7.65	3.37	2.00	23.80	8.36	
2521.11	4.38	23.80	2515.06	147.50	65.05	0.00	0.00	161.21	
2771.30	0.00	0.00	2765.00	156.25	68.90	1.75	180.00	170.76	
9624.30	0.00	0.00	9618.00	156.25	68.90	0.00	0.00	170.76	NBU 921-25G3CS PBHL

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SEC 25 T9S R21E
 System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1447.00	1449.93	GREEN RIVER
4700.00	4706.30	WASATCH
8293.00	8299.30	MESAVERDE

CASING DETAILS

TVD	MD	Name	Size
2360.00	2365.60	8 5/8"	8.625

Plan: PLAN #1 (NBU 921-25G3CS/OH)

Created By: RobertScott Date: 14:59, August 12 2010



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-25J2 Pad

NBU 921-25G3CS

OH

Plan: PLAN #1

Standard Planning Report

12 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E			
Site Position:		Northing:	14,532,105.07 usft	Latitude: 40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude: 109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.97 °

Well	NBU 921-25G3CS, 2596' FSL 2605' FEL			
Well Position	+N/-S	0.00 ft	Northing:	14,532,105.07 usft
	+E/-W	0.00 ft	Easting:	2,060,692.75 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:		Ground Level: 0.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/12/2010	11.18	65.90	52,417

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	23.80

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
518.91	4.38	23.80	518.70	7.65	3.37	2.00	2.00	0.00	23.80	
2,521.11	4.38	23.80	2,515.06	147.50	65.05	0.00	0.00	0.00	0.00	
2,771.30	0.00	0.00	2,765.00	156.25	68.90	1.75	-1.75	0.00	180.00	
9,624.30	0.00	0.00	9,618.00	156.25	68.90	0.00	0.00	0.00	0.00	NBU 921-25G3CS PE

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	23.80	399.98	1.60	0.70	1.75	2.00	2.00	0.00
500.00	4.00	23.80	499.84	6.39	2.82	6.98	2.00	2.00	0.00
518.91	4.38	23.80	518.70	7.65	3.37	8.36	2.00	2.00	0.00
Start 2002.20 hold at 518.91 MD									
600.00	4.38	23.80	599.55	13.31	5.87	14.55	0.00	0.00	0.00
700.00	4.38	23.80	699.26	20.30	8.95	22.18	0.00	0.00	0.00
800.00	4.38	23.80	798.97	27.28	12.03	29.82	0.00	0.00	0.00
900.00	4.38	23.80	898.67	34.27	15.11	37.45	0.00	0.00	0.00
1,000.00	4.38	23.80	998.38	41.25	18.19	45.09	0.00	0.00	0.00
1,100.00	4.38	23.80	1,098.09	48.24	21.27	52.72	0.00	0.00	0.00
1,200.00	4.38	23.80	1,197.80	55.22	24.35	60.35	0.00	0.00	0.00
1,300.00	4.38	23.80	1,297.51	62.21	27.43	67.99	0.00	0.00	0.00
1,400.00	4.38	23.80	1,397.22	69.19	30.51	75.62	0.00	0.00	0.00
1,449.93	4.38	23.80	1,447.00	72.68	32.05	79.43	0.00	0.00	0.00
GREEN RIVER									
1,500.00	4.38	23.80	1,496.92	76.18	33.59	83.26	0.00	0.00	0.00
1,600.00	4.38	23.80	1,596.63	83.16	36.67	90.89	0.00	0.00	0.00
1,700.00	4.38	23.80	1,696.34	90.15	39.75	98.52	0.00	0.00	0.00
1,800.00	4.38	23.80	1,796.05	97.13	42.83	106.16	0.00	0.00	0.00
1,900.00	4.38	23.80	1,895.76	104.12	45.91	113.79	0.00	0.00	0.00
2,000.00	4.38	23.80	1,995.46	111.10	48.99	121.43	0.00	0.00	0.00
2,100.00	4.38	23.80	2,095.17	118.09	52.07	129.06	0.00	0.00	0.00
2,200.00	4.38	23.80	2,194.88	125.07	55.15	136.69	0.00	0.00	0.00
2,300.00	4.38	23.80	2,294.59	132.06	58.24	144.33	0.00	0.00	0.00
2,365.60	4.38	23.80	2,360.00	136.64	60.26	149.34	0.00	0.00	0.00
8 5/8"									
2,400.00	4.38	23.80	2,394.30	139.04	61.32	151.96	0.00	0.00	0.00
2,500.00	4.38	23.80	2,494.01	146.03	64.40	159.60	0.00	0.00	0.00
2,521.11	4.38	23.80	2,515.06	147.50	65.05	161.21	0.00	0.00	0.00
Start Drop -1.75									
2,600.00	3.00	23.80	2,593.78	152.15	67.09	166.28	1.75	-1.75	0.00
2,700.00	1.25	23.80	2,693.71	155.54	68.59	169.99	1.75	-1.75	0.00
2,771.30	0.00	0.00	2,765.00	156.25	68.90	170.76	1.75	-1.75	0.00
Start 6853.00 hold at 2771.30 MD									
2,800.00	0.00	0.00	2,793.70	156.25	68.90	170.76	0.00	0.00	0.00
2,900.00	0.00	0.00	2,893.70	156.25	68.90	170.76	0.00	0.00	0.00
3,000.00	0.00	0.00	2,993.70	156.25	68.90	170.76	0.00	0.00	0.00
3,100.00	0.00	0.00	3,093.70	156.25	68.90	170.76	0.00	0.00	0.00
3,200.00	0.00	0.00	3,193.70	156.25	68.90	170.76	0.00	0.00	0.00
3,300.00	0.00	0.00	3,293.70	156.25	68.90	170.76	0.00	0.00	0.00
3,400.00	0.00	0.00	3,393.70	156.25	68.90	170.76	0.00	0.00	0.00
3,500.00	0.00	0.00	3,493.70	156.25	68.90	170.76	0.00	0.00	0.00
3,600.00	0.00	0.00	3,593.70	156.25	68.90	170.76	0.00	0.00	0.00
3,700.00	0.00	0.00	3,693.70	156.25	68.90	170.76	0.00	0.00	0.00
3,800.00	0.00	0.00	3,793.70	156.25	68.90	170.76	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,900.00	0.00	0.00	3,893.70	156.25	68.90	170.76	0.00	0.00	0.00
4,000.00	0.00	0.00	3,993.70	156.25	68.90	170.76	0.00	0.00	0.00
4,100.00	0.00	0.00	4,093.70	156.25	68.90	170.76	0.00	0.00	0.00
4,200.00	0.00	0.00	4,193.70	156.25	68.90	170.76	0.00	0.00	0.00
4,300.00	0.00	0.00	4,293.70	156.25	68.90	170.76	0.00	0.00	0.00
4,400.00	0.00	0.00	4,393.70	156.25	68.90	170.76	0.00	0.00	0.00
4,500.00	0.00	0.00	4,493.70	156.25	68.90	170.76	0.00	0.00	0.00
4,600.00	0.00	0.00	4,593.70	156.25	68.90	170.76	0.00	0.00	0.00
4,700.00	0.00	0.00	4,693.70	156.25	68.90	170.76	0.00	0.00	0.00
4,706.30	0.00	0.00	4,700.00	156.25	68.90	170.76	0.00	0.00	0.00
WASATCH									
4,800.00	0.00	0.00	4,793.70	156.25	68.90	170.76	0.00	0.00	0.00
4,900.00	0.00	0.00	4,893.70	156.25	68.90	170.76	0.00	0.00	0.00
5,000.00	0.00	0.00	4,993.70	156.25	68.90	170.76	0.00	0.00	0.00
5,100.00	0.00	0.00	5,093.70	156.25	68.90	170.76	0.00	0.00	0.00
5,200.00	0.00	0.00	5,193.70	156.25	68.90	170.76	0.00	0.00	0.00
5,300.00	0.00	0.00	5,293.70	156.25	68.90	170.76	0.00	0.00	0.00
5,400.00	0.00	0.00	5,393.70	156.25	68.90	170.76	0.00	0.00	0.00
5,500.00	0.00	0.00	5,493.70	156.25	68.90	170.76	0.00	0.00	0.00
5,600.00	0.00	0.00	5,593.70	156.25	68.90	170.76	0.00	0.00	0.00
5,700.00	0.00	0.00	5,693.70	156.25	68.90	170.76	0.00	0.00	0.00
5,800.00	0.00	0.00	5,793.70	156.25	68.90	170.76	0.00	0.00	0.00
5,900.00	0.00	0.00	5,893.70	156.25	68.90	170.76	0.00	0.00	0.00
6,000.00	0.00	0.00	5,993.70	156.25	68.90	170.76	0.00	0.00	0.00
6,100.00	0.00	0.00	6,093.70	156.25	68.90	170.76	0.00	0.00	0.00
6,200.00	0.00	0.00	6,193.70	156.25	68.90	170.76	0.00	0.00	0.00
6,300.00	0.00	0.00	6,293.70	156.25	68.90	170.76	0.00	0.00	0.00
6,400.00	0.00	0.00	6,393.70	156.25	68.90	170.76	0.00	0.00	0.00
6,500.00	0.00	0.00	6,493.70	156.25	68.90	170.76	0.00	0.00	0.00
6,600.00	0.00	0.00	6,593.70	156.25	68.90	170.76	0.00	0.00	0.00
6,700.00	0.00	0.00	6,693.70	156.25	68.90	170.76	0.00	0.00	0.00
6,800.00	0.00	0.00	6,793.70	156.25	68.90	170.76	0.00	0.00	0.00
6,900.00	0.00	0.00	6,893.70	156.25	68.90	170.76	0.00	0.00	0.00
7,000.00	0.00	0.00	6,993.70	156.25	68.90	170.76	0.00	0.00	0.00
7,100.00	0.00	0.00	7,093.70	156.25	68.90	170.76	0.00	0.00	0.00
7,200.00	0.00	0.00	7,193.70	156.25	68.90	170.76	0.00	0.00	0.00
7,300.00	0.00	0.00	7,293.70	156.25	68.90	170.76	0.00	0.00	0.00
7,400.00	0.00	0.00	7,393.70	156.25	68.90	170.76	0.00	0.00	0.00
7,500.00	0.00	0.00	7,493.70	156.25	68.90	170.76	0.00	0.00	0.00
7,600.00	0.00	0.00	7,593.70	156.25	68.90	170.76	0.00	0.00	0.00
7,700.00	0.00	0.00	7,693.70	156.25	68.90	170.76	0.00	0.00	0.00
7,800.00	0.00	0.00	7,793.70	156.25	68.90	170.76	0.00	0.00	0.00
7,900.00	0.00	0.00	7,893.70	156.25	68.90	170.76	0.00	0.00	0.00
8,000.00	0.00	0.00	7,993.70	156.25	68.90	170.76	0.00	0.00	0.00
8,100.00	0.00	0.00	8,093.70	156.25	68.90	170.76	0.00	0.00	0.00
8,200.00	0.00	0.00	8,193.70	156.25	68.90	170.76	0.00	0.00	0.00
8,299.30	0.00	0.00	8,293.00	156.25	68.90	170.76	0.00	0.00	0.00
MESAVERDE									
8,300.00	0.00	0.00	8,293.70	156.25	68.90	170.76	0.00	0.00	0.00
8,400.00	0.00	0.00	8,393.70	156.25	68.90	170.76	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,500.00	0.00	0.00	8,493.70	156.25	68.90	170.76	0.00	0.00	0.00
8,600.00	0.00	0.00	8,593.70	156.25	68.90	170.76	0.00	0.00	0.00
8,700.00	0.00	0.00	8,693.70	156.25	68.90	170.76	0.00	0.00	0.00
8,800.00	0.00	0.00	8,793.70	156.25	68.90	170.76	0.00	0.00	0.00
8,900.00	0.00	0.00	8,893.70	156.25	68.90	170.76	0.00	0.00	0.00
9,000.00	0.00	0.00	8,993.70	156.25	68.90	170.76	0.00	0.00	0.00
9,100.00	0.00	0.00	9,093.70	156.25	68.90	170.76	0.00	0.00	0.00
9,200.00	0.00	0.00	9,193.70	156.25	68.90	170.76	0.00	0.00	0.00
9,300.00	0.00	0.00	9,293.70	156.25	68.90	170.76	0.00	0.00	0.00
9,400.00	0.00	0.00	9,393.70	156.25	68.90	170.76	0.00	0.00	0.00
9,500.00	0.00	0.00	9,493.70	156.25	68.90	170.76	0.00	0.00	0.00
9,600.00	0.00	0.00	9,593.70	156.25	68.90	170.76	0.00	0.00	0.00
9,624.30	0.00	0.00	9,618.00	156.25	68.90	170.76	0.00	0.00	0.00
NBU 921-25G3CS PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-25G3CS PBHL	0.00	0.97	9,618.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,365.60	2,360.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,449.93	1,447.00	GREEN RIVER			
4,706.30	4,700.00	WASATCH			
8,299.30	8,293.00	MESAVERDE			

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
518.91	518.70	7.65	3.37	Start 2002.20 hold at 518.91 MD
2,521.11	2,515.06	147.50	65.05	Start Drop -1.75
2,771.30	2,765.00	156.25	68.90	Start 6853.00 hold at 2771.30 MD
9,624.30	9,618.00	156.25	68.90	TD at 9624.30

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12

NBU 921-25J2 Pad

NBU 921-25G3CS

OH

Plan: PLAN #1

Standard Planning Report - Geographic

12 August, 2010

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25J2 Pad, SEC 25 T9S R21E			
Site Position:		Northing:	14,532,105.07 usft	Latitude: 40° 0' 24.930 N
From:	Lat/Long	Easting:	2,060,692.75 usft	Longitude: 109° 29' 57.138 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence: 0.97 °

Well	NBU 921-25G3CS, 2596' FSL 2605' FEL			
Well Position	+N/-S	0.00 ft	Northing:	14,532,105.07 usft
	+E/-W	0.00 ft	Easting:	2,060,692.75 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 0.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	08/12/2010	11.18	65.90	52,417

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	23.80

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
518.91	4.38	23.80	518.70	7.65	3.37	2.00	2.00	0.00	23.80	
2,521.11	4.38	23.80	2,515.06	147.50	65.05	0.00	0.00	0.00	0.00	
2,771.30	0.00	0.00	2,765.00	156.25	68.90	1.75	-1.75	0.00	180.00	
9,624.30	0.00	0.00	9,618.00	156.25	68.90	0.00	0.00	0.00	0.00	NBU 921-25G3CS PE

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,532,105.07	2,060,692.75	40° 0' 24.930 N	109° 29' 57.138 W
100.00	0.00	0.00	100.00	0.00	0.00	14,532,105.07	2,060,692.75	40° 0' 24.930 N	109° 29' 57.138 W
200.00	0.00	0.00	200.00	0.00	0.00	14,532,105.07	2,060,692.75	40° 0' 24.930 N	109° 29' 57.138 W
300.00	0.00	0.00	300.00	0.00	0.00	14,532,105.07	2,060,692.75	40° 0' 24.930 N	109° 29' 57.138 W
Start Build 2.00									
400.00	2.00	23.80	399.98	1.60	0.70	14,532,106.68	2,060,693.42	40° 0' 24.946 N	109° 29' 57.129 W
500.00	4.00	23.80	499.84	6.39	2.82	14,532,111.50	2,060,695.46	40° 0' 24.993 N	109° 29' 57.102 W
518.91	4.38	23.80	518.70	7.65	3.37	14,532,112.77	2,060,695.99	40° 0' 25.006 N	109° 29' 57.095 W
Start 2002.20 hold at 518.91 MD									
600.00	4.38	23.80	599.55	13.31	5.87	14,532,118.48	2,060,698.39	40° 0' 25.062 N	109° 29' 57.063 W
700.00	4.38	23.80	699.26	20.30	8.95	14,532,125.51	2,060,701.36	40° 0' 25.131 N	109° 29' 57.023 W
800.00	4.38	23.80	798.97	27.28	12.03	14,532,132.55	2,060,704.32	40° 0' 25.200 N	109° 29' 56.983 W
900.00	4.38	23.80	898.67	34.27	15.11	14,532,139.59	2,060,707.28	40° 0' 25.269 N	109° 29' 56.944 W
1,000.00	4.38	23.80	998.38	41.25	18.19	14,532,146.62	2,060,710.24	40° 0' 25.338 N	109° 29' 56.904 W
1,100.00	4.38	23.80	1,098.09	48.24	21.27	14,532,153.66	2,060,713.20	40° 0' 25.407 N	109° 29' 56.865 W
1,200.00	4.38	23.80	1,197.80	55.22	24.35	14,532,160.69	2,060,716.17	40° 0' 25.476 N	109° 29' 56.825 W
1,300.00	4.38	23.80	1,297.51	62.21	27.43	14,532,167.73	2,060,719.13	40° 0' 25.545 N	109° 29' 56.785 W
1,400.00	4.38	23.80	1,397.22	69.19	30.51	14,532,174.77	2,060,722.09	40° 0' 25.614 N	109° 29' 56.746 W
1,449.93	4.38	23.80	1,447.00	72.68	32.05	14,532,178.28	2,060,723.57	40° 0' 25.648 N	109° 29' 56.726 W
GREEN RIVER									
1,500.00	4.38	23.80	1,496.92	76.18	33.59	14,532,181.80	2,060,725.05	40° 0' 25.683 N	109° 29' 56.706 W
1,600.00	4.38	23.80	1,596.63	83.16	36.67	14,532,188.84	2,060,728.01	40° 0' 25.752 N	109° 29' 56.667 W
1,700.00	4.38	23.80	1,696.34	90.15	39.75	14,532,195.87	2,060,730.98	40° 0' 25.821 N	109° 29' 56.627 W
1,800.00	4.38	23.80	1,796.05	97.13	42.83	14,532,202.91	2,060,733.94	40° 0' 25.890 N	109° 29' 56.587 W
1,900.00	4.38	23.80	1,895.76	104.12	45.91	14,532,209.94	2,060,736.90	40° 0' 25.959 N	109° 29' 56.548 W
2,000.00	4.38	23.80	1,995.46	111.10	48.99	14,532,216.98	2,060,739.86	40° 0' 26.028 N	109° 29' 56.508 W
2,100.00	4.38	23.80	2,095.17	118.09	52.07	14,532,224.02	2,060,742.83	40° 0' 26.097 N	109° 29' 56.469 W
2,200.00	4.38	23.80	2,194.88	125.07	55.15	14,532,231.05	2,060,745.79	40° 0' 26.166 N	109° 29' 56.429 W
2,300.00	4.38	23.80	2,294.59	132.06	58.24	14,532,238.09	2,060,748.75	40° 0' 26.235 N	109° 29' 56.389 W
2,365.60	4.38	23.80	2,360.00	136.64	60.26	14,532,242.70	2,060,750.69	40° 0' 26.281 N	109° 29' 56.364 W
8 5/8"									
2,400.00	4.38	23.80	2,394.30	139.04	61.32	14,532,245.12	2,060,751.71	40° 0' 26.304 N	109° 29' 56.350 W
2,500.00	4.38	23.80	2,494.01	146.03	64.40	14,532,252.16	2,060,754.67	40° 0' 26.373 N	109° 29' 56.310 W
2,521.11	4.38	23.80	2,515.06	147.50	65.05	14,532,253.65	2,060,755.30	40° 0' 26.388 N	109° 29' 56.302 W
Start Drop -1.75									
2,600.00	3.00	23.80	2,593.78	152.15	67.09	14,532,258.32	2,060,757.27	40° 0' 26.434 N	109° 29' 56.276 W
2,700.00	1.25	23.80	2,693.71	155.54	68.59	14,532,261.74	2,060,758.71	40° 0' 26.467 N	109° 29' 56.256 W
2,771.30	0.00	0.00	2,765.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
Start 6853.00 hold at 2771.30 MD									
2,800.00	0.00	0.00	2,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
2,900.00	0.00	0.00	2,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,000.00	0.00	0.00	2,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,100.00	0.00	0.00	3,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,200.00	0.00	0.00	3,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,300.00	0.00	0.00	3,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,400.00	0.00	0.00	3,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,500.00	0.00	0.00	3,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,600.00	0.00	0.00	3,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,700.00	0.00	0.00	3,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
3,800.00	0.00	0.00	3,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
3,900.00	0.00	0.00	3,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,000.00	0.00	0.00	3,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,100.00	0.00	0.00	4,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,200.00	0.00	0.00	4,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,300.00	0.00	0.00	4,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,400.00	0.00	0.00	4,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,500.00	0.00	0.00	4,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,600.00	0.00	0.00	4,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,700.00	0.00	0.00	4,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,706.30	0.00	0.00	4,700.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
WASATCH									
4,800.00	0.00	0.00	4,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
4,900.00	0.00	0.00	4,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,000.00	0.00	0.00	4,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,100.00	0.00	0.00	5,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,200.00	0.00	0.00	5,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,300.00	0.00	0.00	5,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,400.00	0.00	0.00	5,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,500.00	0.00	0.00	5,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,600.00	0.00	0.00	5,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,700.00	0.00	0.00	5,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,800.00	0.00	0.00	5,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
5,900.00	0.00	0.00	5,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,000.00	0.00	0.00	5,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,100.00	0.00	0.00	6,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,200.00	0.00	0.00	6,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,300.00	0.00	0.00	6,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,400.00	0.00	0.00	6,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,500.00	0.00	0.00	6,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,600.00	0.00	0.00	6,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,700.00	0.00	0.00	6,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,800.00	0.00	0.00	6,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
6,900.00	0.00	0.00	6,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,000.00	0.00	0.00	6,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,100.00	0.00	0.00	7,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,200.00	0.00	0.00	7,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,300.00	0.00	0.00	7,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,400.00	0.00	0.00	7,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,500.00	0.00	0.00	7,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,600.00	0.00	0.00	7,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,700.00	0.00	0.00	7,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,800.00	0.00	0.00	7,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
7,900.00	0.00	0.00	7,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,000.00	0.00	0.00	7,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,100.00	0.00	0.00	8,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,200.00	0.00	0.00	8,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,299.30	0.00	0.00	8,293.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
MESAVERDE									
8,300.00	0.00	0.00	8,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,400.00	0.00	0.00	8,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,500.00	0.00	0.00	8,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,600.00	0.00	0.00	8,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,700.00	0.00	0.00	8,693.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,800.00	0.00	0.00	8,793.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
8,900.00	0.00	0.00	8,893.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,000.00	0.00	0.00	8,993.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,100.00	0.00	0.00	9,093.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,200.00	0.00	0.00	9,193.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,300.00	0.00	0.00	9,293.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,400.00	0.00	0.00	9,393.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,500.00	0.00	0.00	9,493.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,600.00	0.00	0.00	9,593.70	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
9,624.30	0.00	0.00	9,618.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
NBU 921-25G3CS PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
NBU 921-25G3CS PBHL	0.00	0.97	9,618.00	156.25	68.90	14,532,262.45	2,060,759.01	40° 0' 26.474 N	109° 29' 56.252 W
- plan hits target center									
- Circle (radius 25.00)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,365.60	2,360.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,449.93	1,447.00	GREEN RIVER			
4,706.30	4,700.00	WASATCH			
8,299.30	8,293.00	MESAVERDE			

Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Well NBU 921-25G3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4930 & RKB 14 @ 4944.00ft (ASSUMED)
Site:	NBU 921-25J2 Pad	North Reference:	True
Well:	NBU 921-25G3CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
518.91	518.70	7.65	3.37	Start 2002.20 hold at 518.91 MD
2,521.11	2,515.06	147.50	65.05	Start Drop -1.75
2,771.30	2,765.00	156.25	68.90	Start 6853.00 hold at 2771.30 MD
9,624.30	9,618.00	156.25	68.90	TD at 9624.30

NBU 921-25G3AS

Surface: 2,611' FSL 2,578' FEL (NW/4SE/4)
BHL: 2,265' FNL 2,136' FEL (SW/4NE/4)
Mineral Lease: UO 1189 ST

NBU 921-25G3CS

Surface: 2,606' FSL 2,587' FEL (NW/4SE/4)
BHL: 2,530' FNL 2,518' FEL (SW/4NE/4)
Mineral Lease: UO 1189 ST

NBU 921-25J2CS

Surface: 2,601' FSL 2,596' FEL (NW/4SE/4)
BHL: 2,310' FSL 2,410' FEL (NW/4SE/4)
Mineral Lease: UO 1194 ST

NBU 921-25K1CS

Surface: 2,596' FSL 2,605' FEL (NW/4SE/4)
BHL: 2,186' FSL 2,231' FWL (NE/4SW/4)
Mineral Lease: UO 1194 ST

Pad: NBU 921-25J2
Section 25 T9S R21E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

Approximately $\pm 350'$ (0.1 miles) of road re-route to this pad location is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the CIGE 172, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of August 16, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,190'$ and the individual segments are broken up as follows:

$\pm 770'$ (0.1 miles) –New 6" buried gas pipeline from the meter to the edge of the pad.

±420' (0.1 miles) –New 6” buried gas pipeline from the edge of pad to the existing 12” gas pipeline tie in point.

The total liquid gathering pipeline distance from the meter to the tie in point is ±2,100' and the individual segments are broken up as follows:

±770' (0.1 miles) –New 4” buried liquid pipeline from the meter to the edge of the pad.

±1,330' (0.3 miles) –New 4” buried liquid pipeline from the edge of pad to the main road intersection.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. Location and Type of Water Supply:

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

RNI in Sec. 5 T9S R22E
 Ace Oilfield in Sec. 2 T6S R20E
 MC&MC in Sec. 12 T6S R19E
 Pipeline Facility in Sec. 36 T9S R20E
 Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
 Bonanza Evaporation Pond in Sec. 2 T10S R23E
 Ouray #1 SWD in Sec. 1 T9S R21E
 NBU 159 SWD in Sec. 35 T9S R21E
 CIGE 112D SWD in Sec. 19 T9S R21E
 CIGE 114 SWD in Sec. 34 T9S R21E
 NBU 921-34K SWD in Sec. 34 T9S R21E
 NBU 921-33F SWD in Sec. 33 T9S R21E
 NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

For the protection of livestock and wildlife, all open pits and cellars will be fenced/covered to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition,

no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but are not limited to: re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where

possible, the land surface will be left “rough” after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

Final Reclamation

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by APC/KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

A Class I literature survey was conducted by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 10-125

A paleontological reconnaissance has been conducted by Intermountain Paleo-Consulting (IPC) and a report will be submitted under separate cover.

A biological field survey was completed by Grasslands Consulting, Inc. on July 13, 2010. For additional details please refer to report GCI-292.

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Danielle Piernot

August 16, 2010
Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 36 PROPOSED WELL LOCATIONS
IN T9S, R21E, SECTION 25
(MOAC Report No. 10-125)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 10-125

July 26, 2010

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #292

Report Date: August 03, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 921-25J2 well pad (Bores: NBU 921-25G3AS, NBU 921-25G3CS, NBU 921-25J2CS, & NBU 921-25K1CS)

Pipeline: Associated pipeline leading to proposed well pad

Access Road: Associated road leading to proposed well pad

Location: Section 25, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Survey Date: July 13, 2010

Observers: Grasslands Consulting, Inc. Biologists: Brad Snopek, Jennie Sinclair, Jonathan Sexauer, Adrienne Cunningham, Garrett Peterson and field technicians.



Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
DENVER, CO 80217-3779

July 15, 2010

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-25G3CS
T9S-R21E
Section 25: NWSE surface, SWNE bottom hole
Surface: 2606' FSL, 2587' FEL
Bottom Hole: 2530' FNL, 2518' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-25G3CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

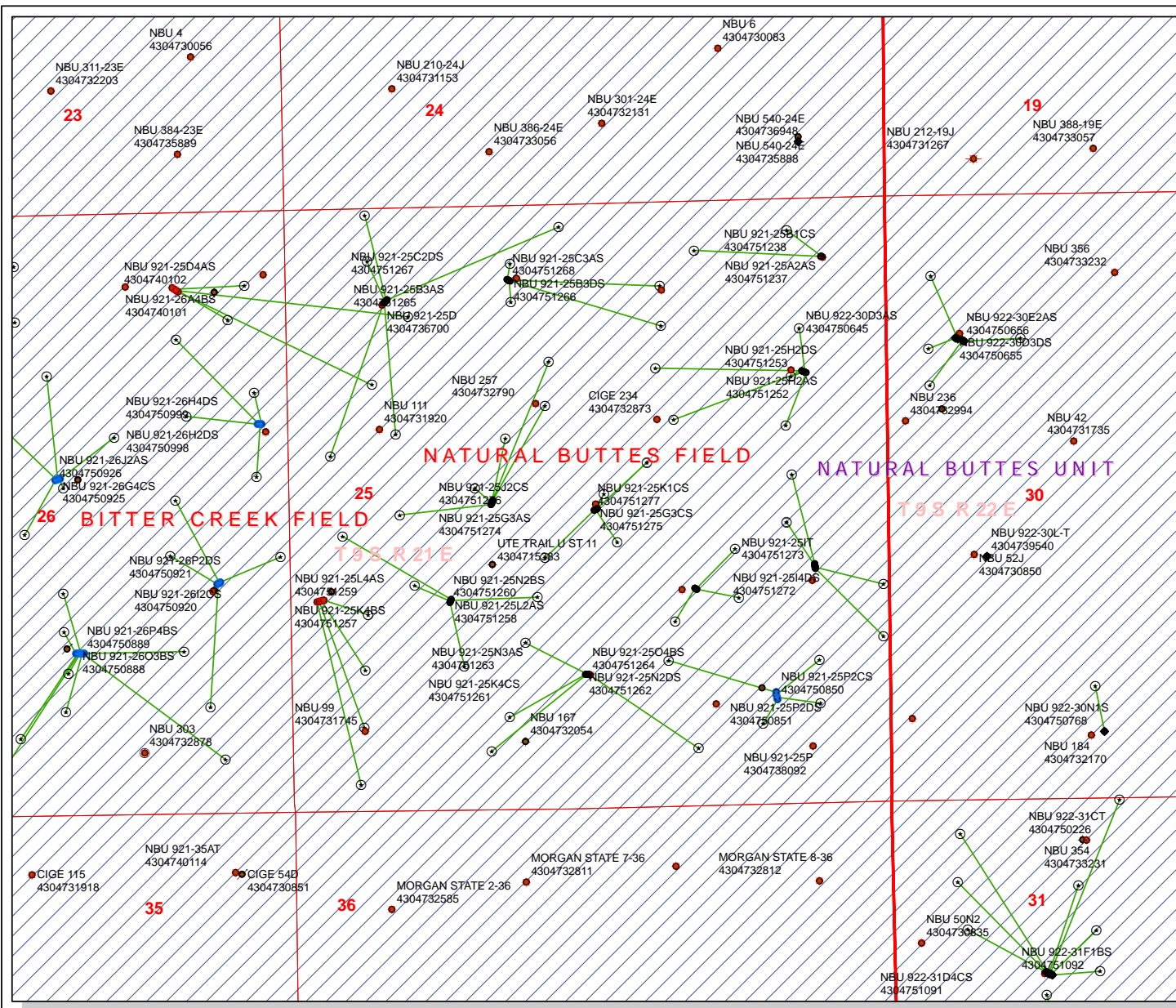
Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink, appearing to read 'Joe Matney'.

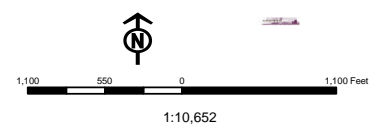
Joe Matney
Sr. Staff Landman



API Number: 4304751275
Well Name: NBU 921-25G3CS
Township 09.0 S Range 21.0 E Section 25
Meridian: SLBM
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

- | | | |
|-----------------------------|---------------|------------------------------------|
| Units | STATUS | Wells Query |
| ACTIVE | EXPLORED | APD - Approved Permit |
| GAS STORAGE | NF PP OIL | DRL - Spudded (Drilling Commenced) |
| NF SECONDARY | PI OIL | GW - Gas Injection |
| PP GAS | PP GEOTHERMAL | GS - Gas Storage |
| SECONDARY | TERMINATED | LA - Location Abandoned |
| Fields | | LOC - New Location |
| Sections | | OPS - Operation Suspended |
| Township | | PA - Plugged Abandoned |
| Bottom Hole Location - AGRC | | PGW - Producing Gas Well |
| | | RET - Returned APD |
| | | SGW - Shut-in Gas Well |
| | | TA - Temp. Abandoned |
| | | TW - Test Well |
| | | WDW - Water Disposal |
| | | WW - Water Injection Well |
| | | WSW - Water Supply Well |



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

August 17, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2010 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25A Pad

43-047-51237	NBU 921-25A2AS	Sec 25 T09S R21E 0489 FNL 0565 FEL
	BHL	Sec 25 T09S R21E 0252 FNL 0865 FEL

43-047-51238	NBU 921-25B1CS	Sec 25 T09S R21E 0489 FNL 0575 FEL
	BHL	Sec 25 T09S R21E 0416 FNL 1676 FEL

NBU 921-25D Pad

43-047-51239	NBU 921-25C1AS	Sec 25 T09S R21E 0800 FNL 0893 FWL
	BHL	Sec 25 T09S R21E 0190 FNL 2405 FWL

43-047-51240	NBU 921-25D1BS	Sec 25 T09S R21E 0807 FNL 0885 FWL
	BHL	Sec 25 T09S R21E 0060 FNL 0716 FWL

43-047-51241	NBU 921-25E1CS	Sec 25 T09S R21E 0821 FNL 0871 FWL
	BHL	Sec 25 T09S R21E 1976 FNL 0947 FWL

43-047-51242	NBU 921-25E3AS	Sec 25 T09S R21E 0828 FNL 0864 FWL
	BHL	Sec 25 T09S R21E 2162 FNL 0371 FWL

43-047-51251	NBU 921-25D1CS	Sec 25 T09S R21E 0814 FNL 0878 FWL
	BHL	Sec 25 T09S R21E 0460 FNL 0726 FWL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25F Pad

43-047-51243	NBU 921-25F1BS	Sec 25 T09S R21E 2580 FNL 1780 FWL
	BHL	Sec 25 T09S R21E 1366 FNL 2296 FWL
43-047-51244	NBU 921-25F1CS	Sec 25 T09S R21E 2571 FNL 1784 FWL
	BHL	Sec 25 T09S R21E 1754 FNL 2259 FWL
43-047-51245	NBU 921-25F3AS	Sec 25 T09S R21E 2589 FNL 1776 FWL
	BHL	Sec 25 T09S R21E 2034 FNL 1905 FWL
43-047-51246	NBU 921-25F3CS	Sec 25 T09S R21E 2598 FNL 1772 FWL
	BHL	Sec 25 T09S R21E 2461 FNL 1628 FWL
43-047-51247	NBU 921-25L1BS	Sec 25 T09S R21E 2607 FNL 1768 FWL
	BHL	Sec 25 T09S R21E 2597 FSL 0969 FWL

NBU 921-25H Pad

43-047-51248	NBU 921-25A3DS	Sec 25 T09S R21E 1498 FNL 0736 FEL
	BHL	Sec 25 T09S R21E 1110 FNL 0776 FEL
43-047-51249	NBU 921-25G1CS	Sec 25 T09S R21E 1489 FNL 0754 FEL
	BHL	Sec 25 T09S R21E 1895 FNL 1893 FEL
43-047-51250	NBU 921-25G2AS	Sec 25 T09S R21E 1484 FNL 0763 FEL
	BHL	Sec 25 T09S R21E 1439 FNL 2042 FEL
43-047-51252	NBU 921-25H2AS	Sec 25 T09S R21E 1493 FNL 0745 FEL
	BHL	Sec 25 T09S R21E 1538 FNL 0857 FEL
43-047-51253	NBU 921-25H2DS	Sec 25 T09S R21E 1502 FNL 0727 FEL
	BHL	Sec 25 T09S R21E 1958 FNL 0913 FEL

NBU 921-25J Pad

43-047-51254	NBU 921-25J4AS	Sec 25 T09S R21E 1878 FSL 1725 FEL
	BHL	Sec 25 T09S R21E 1795 FSL 1360 FEL
43-047-51255	NBU 921-25J4CS	Sec 25 T09S R21E 1886 FSL 1743 FEL
	BHL	Sec 25 T09S R21E 1604 FSL 1920 FEL
43-047-51256	NBU 921-25J1DS	Sec 25 T09S R21E 1882 FSL 1734 FEL
	BHL	Sec 25 T09S R21E 2218 FSL 1381 FEL

NBU 921-25K Pad

43-047-51257	NBU 921-25K4BS	Sec 25 T09S R21E 1838 FSL 1400 FWL
	BHL	Sec 25 T09S R21E 1848 FSL 2161 FWL
43-047-51258	NBU 921-25L2AS	Sec 25 T09S R21E 1848 FSL 1402 FWL
	BHL	Sec 25 T09S R21E 2423 FSL 0465 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51259	NBU 921-25L4AS	Sec 25 T09S R21E 1829 FSL 1397 FWL
	BHL	Sec 25 T09S R21E 1975 FSL 1088 FWL
43-047-51260	NBU 921-25N2BS	Sec 25 T09S R21E 1819 FSL 1394 FWL
	BHL	Sec 25 T09S R21E 1260 FSL 1508 FWL
NBU 921-25N Pad		
43-047-51261	NBU 921-25K4CS	Sec 25 T09S R21E 1157 FSL 2585 FWL
	BHL	Sec 25 T09S R21E 1450 FSL 2045 FWL
43-047-51262	NBU 921-25N2DS	Sec 25 T09S R21E 1159 FSL 2565 FWL
	BHL	Sec 25 T09S R21E 0800 FSL 1896 FWL
43-047-51263	NBU 921-25N3AS	Sec 25 T09S R21E 1158 FSL 2575 FWL
	BHL	Sec 25 T09S R21E 0508 FSL 1729 FWL
43-047-51264	NBU 921-25O4BS	Sec 25 T09S R21E 1156 FSL 2595 FWL
	BHL	Sec 25 T09S R21E 0485 FSL 1741 FEL
NBU 921-25C Pad		
43-047-51265	NBU 921-25B3AS	Sec 25 T09S R21E 0645 FNL 1955 FWL
	BHL	Sec 25 T09S R21E 0720 FNL 1985 FEL
43-047-51266	NBU 921-25B3DS	Sec 25 T09S R21E 0654 FNL 1972 FWL
	BHL	Sec 25 T09S R21E 1070 FNL 1985 FEL
43-047-51267	NBU 921-25C2DS	Sec 25 T09S R21E 0640 FNL 1946 FWL
	BHL	Sec 25 T09S R21E 0504 FNL 1975 FWL
43-047-51268	NBU 921-25C3AS	Sec 25 T09S R21E 0650 FNL 1964 FWL
	BHL	Sec 25 T09S R21E 0841 FNL 1975 FWL
NBU 921-25I Pad		
43-047-51269	NBU 921-25H3DS	Sec 25 T09S R21E 2074 FSL 0690 FEL
	BHL	Sec 25 T09S R21E 2395 FNL 0870 FEL
43-047-51270	NBU 921-25I2AS	Sec 25 T09S R21E 2054 FSL 0687 FEL
	BHL	Sec 25 T09S R21E 2445 FSL 0924 FEL
43-047-51271	NBU 921-25I4AS	Sec 25 T09S R21E 2045 FSL 0686 FEL
	BHL	Sec 25 T09S R21E 1882 FSL 0091 FEL
43-047-51272	NBU 921-25I4DS	Sec 25 T09S R21E 2035 FSL 0684 FEL
	BHL	Sec 25 T09S R21E 1420 FSL 0105 FEL
43-047-51273	NBU 921-25IT	Sec 25 T09S R21E 2064 FSL 0689 FEL
	BHL	Sec 25 T09S R21E 2064 FSL 0689 FEL

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25J2 Pad

43-047-51274	NBU 921-25G3AS	Sec 25 T09S R21E 2611 FSL 2578 FEL
	BHL	Sec 25 T09S R21E 2265 FNL 2136 FEL
43-047-51275	NBU 921-25G3CS	Sec 25 T09S R21E 2606 FSL 2587 FEL
	BHL	Sec 25 T09S R21E 2530 FNL 2518 FEL
43-047-51276	NBU 921-25J2CS	Sec 25 T09S R21E 2601 FSL 2596 FEL
	BHL	Sec 25 T09S R21E 2310 FSL 2410 FEL
43-047-51277	NBU 921-25K1CS	Sec 25 T09S R21E 2596 FSL 2605 FEL
	BHL	Sec 25 T09S R21E 2186 FSL 2231 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael.L.Coulthard@blm.gov, c=US
Date: 2010.08.17 14:58:46 -0600

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:8-17-10

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Bartlett, Floyd; Laura.Gianakos@anadarko.com; Piernot, Danielle; Upch...
Date: 9/2/2010 9:13 AM
Subject: SITLA approval of Kerr McGee wells
Attachments: KMG approvals and paleo 9.1.2010.xlsx

The following wells have been approved by SITLA including arch clearance. Paleo clearance is also granted with stipulations as noted.

Full Paleo monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist.

NBU 922-29F4DS [API #4304751207]	Full Monitoring	IPC 10-08
NBU 922-29G4CS [API #4304751208]	Full Monitoring	IPC 10-08
NBU 922-29J4BS [API #4304751209]	Full Monitoring	IPC 10-08
NBU 922-29K1DS [API #4304751210]	Full Monitoring	IPC 10-08
NBU 922-29G1AS [API #4304751194]	Full Monitoring	IPC 10-06
NBU 922-29G1DS [API #4304751195]	Full Monitoring	IPC 10-06
NBU 922-29G2BS [API #4304751196]	Full Monitoring	IPC 10-06
NBU 922-29G3BS [API #4304751197]	Full Monitoring	IPC 10-06
NBU 921-25A3DS [API 4304751248]	Full Monitoring	IPC 10-21
NBU 921-25G1CS [API 4304751249]	Full Monitoring	IPC 10-21
NBU 921-25G2AS [API 4304751250]	Full Monitoring	IPC 10-21
NBU 921-25H2AS [API 4304751252]	Full Monitoring	IPC 10-21
NBU 921-25H2DS [API 4304751253]	Full Monitoring	IPC 10-21
NBU 921-25G3AS [API 4304751274]	Full Monitoring	IPC 10-23
NBU 921-25G3CS [API 4304751275]	Full Monitoring	IPC 10-23
NBU 921-25J2CS [API 4304751276]	Full Monitoring	IPC 10-23
NBU 921-25K1CS [API 4304751277]	Full Monitoring	IPC 10-23
NBU 921-25A2AS [API 4304751237]	Full Monitoring	IPC 10-21
NBU 921-25B1CS [API 4304751238]	Full Monitoring	IPC 10-21

Spot Paleo Monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist at the beginning of construction and thereafter spot-monitored as paleontological conditions merit.

NBU 921-25C1AS [API 4304751239]	Spot Monitoring	IPC 10-20
NBU 921-25D1BS [API 4304751240]	Spot Monitoring	IPC 10-20
NBU 921-25D1CS [API 4304751251]	Spot Monitoring	IPC 10-20
NBU 921-25E1CS [API 4304751241]	Spot Monitoring	IPC 10-20
NBU 921-25E3AS [API 4304751242]	Spot Monitoring	IPC 10-20
NBU 921-25F1BS [API 4304751243]	Spot Monitoring	IPC 10-21
NBU 921-25F1CS [API 4304751244]	Spot Monitoring	IPC 10-21
NBU 921-25F3AS [API 4304751245]	Spot Monitoring	IPC 10-21
NBU 921-25F3CS [API 4304751246]	Spot Monitoring	IPC 10-21
NBU 921-25L1BS [API 4304751247]	Spot Monitoring	IPC 10-21
NBU 921-25J1DS [API 4304751256]	Spot Monitoring	IPC 10-23
NBU 921-25J4AS [API 4304751254]	Spot Monitoring	IPC 10-23
NBU 921-25J4CS [API 4304751255]	Spot Monitoring	IPC 10-23
NBU 921-25K4BS [API 4304751257]	Spot Monitoring	IPC 10-22
NBU 921-25L2AS [API 4304751258]	Spot Monitoring	IPC 10-22
NBU 921-25L4AS [API 4304751259]	Spot Monitoring	IPC 10-22
NBU 921-25N2BS [API 4304751260]	Spot Monitoring	IPC 10-22
NBU 921-25K4CS [API 4304751261]	Spot Monitoring	IPC 10-23
NBU 921-25N2DS [API 4304751262]	Spot Monitoring	IPC 10-23
NBU 921-25N3AS [API 4304751263]	Spot Monitoring	IPC 10-23

NBU 921-25O4BS [API 4304751264]	Spot Monitoring	IPC 10-23	
NBU 921-25B3AS [API 4304751265]	Spot Monitoring	IPC 10-20	
NBU 921-25B3DS [API 4304751266]	Spot Monitoring	IPC 10-20	
NBU 921-25C2DS [API 4304751267]	Spot Monitoring	IPC 10-20	
NBU 921-25C3AS [API 4304751268]	Spot Monitoring	IPC 10-20	
NBU 921-25IT [API 4304751273]	Spot Monitoring	IPC 10-23	
NBU 921-25H3DS [API 4304751269]	Spot Monitoring	IPC 10-23	
NBU 921-25I2AS [API 4304751270]	Spot Monitoring	IPC 10-23	
NBU 921-25I4AS [API 4304751271]	Spot Monitoring	IPC 10-23	
NBU 921-25I4DS [API 4304751272]	Spot Monitoring	IPC 10-23	
NBU 922-29A1BS [API #4304751183]	Spot Monitoring	IPC 10-06	
NBU 922-29A1CS [API #4304751184]	Spot Monitoring	IPC 10-06	
NBU 922-29A4CS [API #4304751185]	Spot Monitoring	IPC 10-06	
NBU 922-29H1BS [API #4304751186]	Spot Monitoring	IPC 10-06	
NBU 922-29B2CS [API #4304751187]	Spot Monitoring	IPC 10-06	
NBU 922-29B4AS [API #4304751188]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C2AS [API #4304751189]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C4AS [API #4304751190]	Spot Monitoring	IPC 10-06	
NBU 922-29B1AS [API #4304751191]	Spot Monitoring	IPC 10-06	
NBU 922-29B1DS [API #4304751192]	Spot Monitoring	IPC 10-06	
NBU 922-29B2BS [API #4304751193]	Spot Monitoring	IPC 10-06	
NBU 922-29D4DS [API #4304751198]	Spot Monitoring	IPC 10-05	
NBU 922-29E3BS [API #4304751199]	Spot Monitoring	IPC 10-05	
NBU 922-29F3AS [API #4304751200]	Spot Monitoring	IPC 10-05	
NBU 922-29F3BS [API #4304751201]	Spot Monitoring	IPC 10-05	
NBU 922-29G4AS [API #4304751202]	Spot Monitoring	IPC 10-06	
NBU 922-29H1CS [API #4304751203]	Spot Monitoring	IPC 10-06	
NBU 922-29H4CS [API #4304751204]	Spot Monitoring	IPC 10-06	
NBU 922-29I1BS [API #4304751205]	Spot Monitoring	IPC 10-06	
NBU 922-29I1CS [API #4304751206]	Spot Monitoring	IPC 10-06	
NBU 922-29K2CS [API #4304751211]	Spot Monitoring	IPC 10-07	
NBU 922-29K4AS [API #4304751212]	Spot Monitoring	IPC 10-07	
NBU 922-29L1AS [API #4304751213]	Spot Monitoring	IPC 10-07	
NBU 922-29L2BS [API #4304751214]	Spot Monitoring	IPC 10-07	
NBU 922-29L2CS [API #4304751215]	Spot Monitoring	IPC 10-07	
NBU 922-29L3CS [API #4304751216]	Spot Monitoring	IPC 10-07	
NBU 922-29M2AS [API #4304751217]	Spot Monitoring	IPC 10-07	
NBU 922-29N2BS [API #4304751218]	Spot Monitoring	IPC 10-07	
NBU 922-29N3BS [API #4304751219]	Spot Monitoring	IPC 10-07	
NBU 922-30I4BS [API #4304751220]	Spot Monitoring	IPC 10-07	(SITLA surf/ Fed Min)
NBU 922-30I4CS [API #4304751221]	Spot Monitoring	IPC 10-07	(SITLA surf/Fed Min)
NBU 922-29J4CS [API #4304751222]	Spot Monitoring	IPC 10-08	
NBU 922-29N1BS [API #4304751223]	Spot Monitoring	IPC 10-08	
NBU 922-29O1CS [API #4304751224]	Spot Monitoring	IPC 10-08	

That's quite a list, so I'm attaching a quick-and-dirty spreadsheet of the same data. This may be helpful to some of you.

Thanks.

-Jim

'APIWellNo:43047512750000'

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25G3CS 430475127			
String	Surf	Prod		
Casing Size(in)	8.625	4.500		
Setting Depth (TVD)	2360	9618		
Previous Shoe Setting Depth (TVD)	40	2360		
Max Mud Weight (ppg)	8.3	12.4		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	6059	12.1		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1022	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	739	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	503	NO <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	512	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2360	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

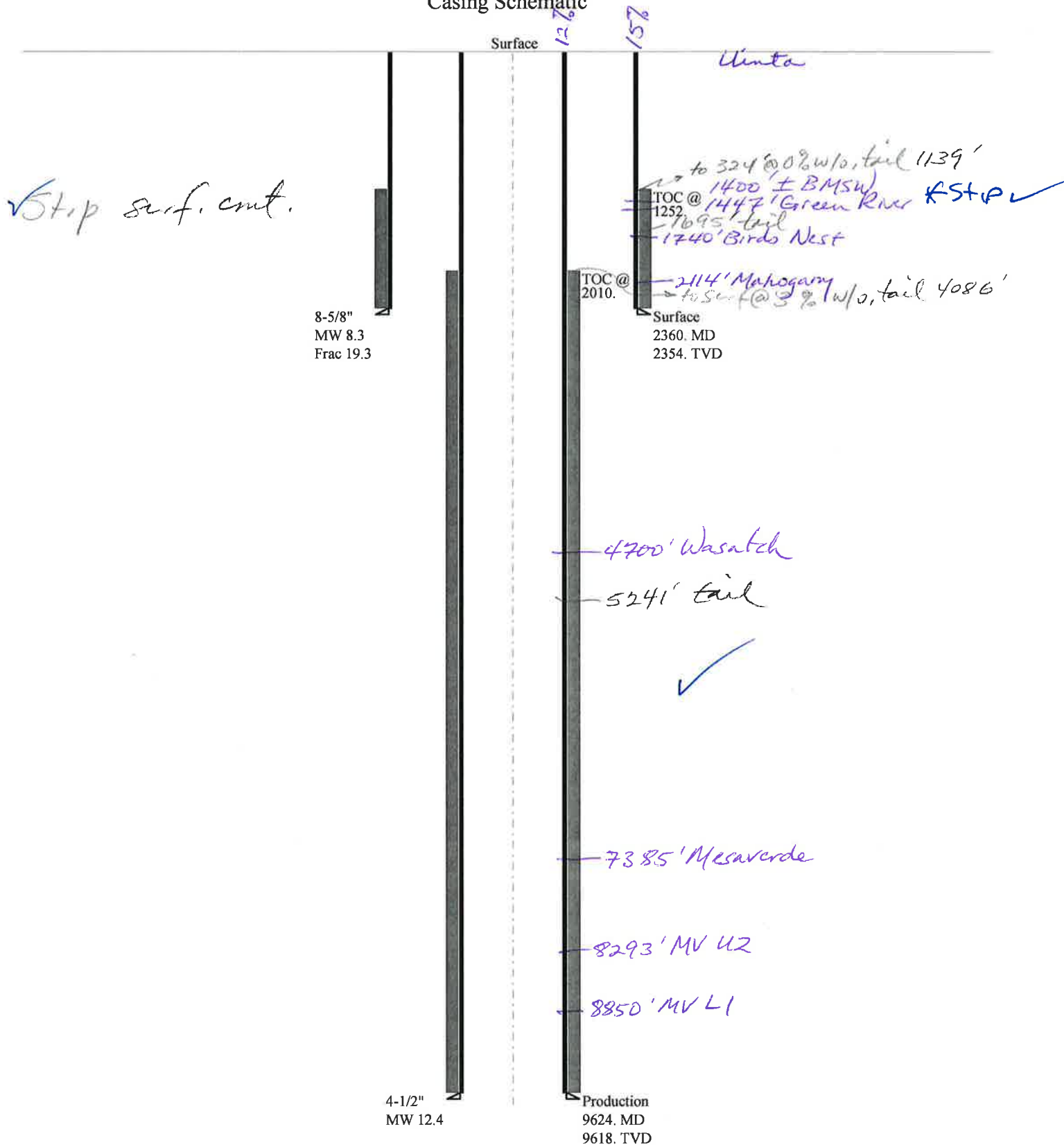
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6202	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5048	NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4086	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4605	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2360	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=	<input type="text"/>	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	<input type="text"/>	NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	<input type="text"/>	NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	<input type="text"/>	NO <input type="text"/>
Required Casing/BOPE Test Pressure=		<input type="text"/>	psi
*Max Pressure Allowed @ Previous Casing Shoe=		<input type="text"/>	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=	<input type="text"/>	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	<input type="text"/>	NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	<input type="text"/>	NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	<input type="text"/>	NO <input type="text"/>
Required Casing/BOPE Test Pressure=		<input type="text"/>	psi
*Max Pressure Allowed @ Previous Casing Shoe=		<input type="text"/>	psi *Assumes 1psi/ft frac gradient

43047512750000 NBU 921-25G3CS

Casing Schematic



Well name:	43047512750000 NBU 921-25G3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51275
Location:	UINTAH	COUNTY	

Design parameters:
Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 107 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,252 ft

Burst

Max anticipated surface pressure: 2,077 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,359 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.

Neutral point: 2,070 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 149 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 4.38 °

Re subsequent strings:

Next setting depth: 9,618 ft
Next mud weight: 12.400 ppg
Next setting BHP: 6,195 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,360 ft
Injection pressure: 2,360 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2360	8.625	28.00	I-55	LT&C	2354	2360	7.892	93456
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1019	1880	1.845	2359	3390	1.44	65.9	348	5.28 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: September 29, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2354 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047512750000 NBU 921-25G3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51275
Location:	UINTAH	COUNTY	

Design parameters:
Collapse

Mud weight: 12.400 ppg
Internal fluid density: 2.330 ppg

Minimum design factors:
Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 209 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,010 ft

Burst

Max anticipated surface pressure: 4,079 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,195 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 171 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 0 °

Tension is based on air weight.
Neutral point: 7,841 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9624	4.5	11.60	I-80	LT&C	9618	9624	3.875	127037
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5031	6360	1.264	6195	7780	1.26	111.6	212	1.90 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: September 29, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9618 ft, a mud weight of 12.4 ppg. An internal gradient of .121 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Application for Permit to Drill

Statement of Basis

10/5/2010

Utah Division of Oil, Gas and Mining

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APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2961	43047512750000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-25G3CS		Unit	NATURAL BUTTES	
Field	NATURAL BUTTES		Type of Work	DRILL	
Location	NWSE 25 9S 21E S 2606 FSL 2587 FEL		GPS Coord (UTM)	628106E	4429397N

Geologic Statement of Basis

Kerr McGee proposes to set 2,360' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 1,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 25. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

9/28/2010
Date / Time

Surface Statement of Basis

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Roger Perry, Laura Gianokas, Lovel Young, Grizz Oleen, (Kerr McGee), Mitch.Batty, John Slaugh, (Timberline Engineering and Land Surveying), Ed Bonner (SITLA), Ben Williams (UDWR).

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 34 air miles and 42.4 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25J2 pad will be created by enlarging the existing pad of the CIGE 172 gas well. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-25G3AS, 921-25G3CS, 921-25J2CS and 921-25K1CS. The direction of the existing pad will be re-oriented and enlarged in all directions. The site is surrounded by moderately low hills, some with ledgy rock outcrops. On the east side of the reserve pit some overland flow and a small channel have developed. Rather than construct a diversion ditch and re-route it to the north or angle the end of the pit, excess spoils will be stockpiled along this side to pond any flows. A shallow drainage to the west will be missed. Any flows in this area will follow the fill of the pad. The White River is approximately 3 miles down drainage. The selected site appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the best site in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner represented SITLA at the pre-site investigation. Mr. Bonner had no concerns pertaining to this location. SITLA will provide site reclamation standards and a seed mix.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be

**Application for Permit to Drill
Statement of Basis**

10/5/2010

Utah Division of Oil, Gas and Mining

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significantly affected.

Floyd Bartlett
Onsite Evaluator

8/26/2010
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/17/2010

API NO. ASSIGNED: 43047512750000

WELL NAME: NBU 921-25G3CS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWSE 25 090S 210E

Permit Tech Review: ☒

SURFACE: 2606 FSL 2587 FEL

Engineering Review: ☒

BOTTOM: 2530 FNL 2518 FEL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.00695

LONGITUDE: -109.49914

UTM SURF EASTINGS: 628106.00

NORTHINGS: 4429397.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 1189 ST

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- ☒ **PLAT**
- ☒ **Bond:** STATE/FEE - 22013542
- ☐ **Potash**
- ☒ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☒ **Intent to Commingle**

Commingle Approved

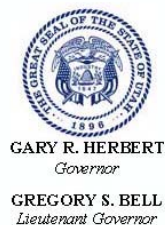
LOCATION AND SITING:

- ☐ **R649-2-3.**
- Unit:** NATURAL BUTTES
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 173-14
- Effective Date:** 12/2/1999
- Siting:** Suspends General Siting
- ☒ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

- 3 - Commingle - ddoucet
- 5 - Statement of Basis - bhill
- 15 - Directional - dmason
- 17 - Oil Shale 190-5(b) - dmason
- 25 - Surface Casing - hmacdonald



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 921-25G3CS
API Well Number: 43047512750000
Lease Number: UO 1189 ST
Surface Owner: STATE
Approval Date: 10/5/2010

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 12/7/2010	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/ 28 SX READY MIX SPUD WELL LOCATION ON DECEMBER 7, 2010 AT 11:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY 12/8/2010		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/8/2010	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751274	NBU 921-25G3AS		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 9:30 HRS. <u>BHL=SWNE</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751275	NBU 921- 63CS <u>25G3CS</u>		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 11:00 HRS. <u>BHL=SWNE</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751276	NBU 921-25J2CS		NWSE	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	12/7/2010		12/14/10		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSMVD</u> SPUD WELL LOCATION ON 12/7/2010 AT 12:30 HRS. <u>BHL= NWSE</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

12/8/2010

Date

RECEIVED

DEC 08 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER:	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/7/2011	OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU CAPSTAR AIR RIG ON JANUARY 5, 2011. DRILLED 11" SURFACE HOLE TO 2600'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 50 BBLS FRESH WATER. PUMP 20 BBLS GEL WATER. LEAD CEMENT W/ 200 SX CLASS G PREM LITE @ 11.0 PPG, 3.52 YD. TAILED CEMENT W/ 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 144.5 BBLS WATER. 490 PSI OF LIFT @ 2 BBLS/MIN. 40 BBLS LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. NO CEMENT TO SURFACE. RUN 1" PIPE & PUMP 150 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE, CEMENT FELL. WILL TOP OUT ON NEXT JOB. WORT.		
NAME (PLEASE PRINT) Andy Lytle		
PHONE NUMBER 720 929-6100		
TITLE Regulatory Analyst		
SIGNATURE N/A		
DATE 1/10/2011		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 2/20/2011	<input checked="" type="checkbox"/> OTHER		
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input style="width: 100px;" type="text" value="RIG RELEASE"/>		
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 FINISHED DRILLING FROM 2600' TO 9640' ON FEBRUARY 18, 2011. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 520 SX CLASS G PREM LITE @ 12.6 PPG, 1.93 YD. TAILED CEMENT W/ 1050 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.26 YD. DISPLACED W/ 148 BBLS WATER, BUMPED PLUG, FLOATS HELD. 5 BBLS SPACER TO PIT, 2 BBL TO TRUCK. EST TOP OF LEAD @ 796'. RD CEMENTERS AND CLEANED PITS. RELEASED ENSIGN RIG #139 ON FEBRUARY 20, 2011 @ 10:00 HRS.

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 2/22/2011

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By KENNY MORRIS Phone Number
435- 828-0984
Well Name/Number NBU-921-25G3CS
Qtr/Qtr NWSE Section 25 Township 9S Range 21E
Lease Serial Number UO1189 ST
API Number 43047512750000

Casing – Time casing run starts, not cementing times.

☒ Production Casing
☐ Other

Date/Time 2/19/2011 12:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ Other

RECEIVED

FEB 17 2011

DIV. OF OIL, GAS & MINING

Date/Time _____ AM ☐ PM ☐

Rig Move

Location To: WILL RUN 4.5 CSG SATURDAY 2/19/2011 AND SKID
TO NBU-921-25J2CS THE THIRD WELL ON PAD

Date/Time _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/28/2011	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/28/2011 AT 11:30 AM. THE CHRONOLOGICAL WELL HISTORY REPORT WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/29/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWSE 2606 FSL 2587 FEL S25, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: SWNE 2506 FNL 2526 FEL S25, T9S, R21E

AT TOTAL DEPTH: SWNE 2538 FNL 2509 FEL S25, T9S, R21E

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25G3CS

9. API NUMBER:
4304751275

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUDDED:
12/7/2010

15. DATE T.D. REACHED:
2/18/2011

16. DATE COMPLETED:
4/28/2011

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
4930 GL

18. TOTAL DEPTH: MD 9,640
TVD 9,625

19. PLUG BACK T.D.: MD 9,565
TVD 9,550

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

SCBL-BHV-SD/DSN/ACTR

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,543		575		0	
7 7/8"	4 1/2" I-80	11.6#		9,608		1,570		940	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,117							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	7,161	7,259			7,161 7,259	0.36	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,461	9,448			7,461 9,448	0.36	169	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7161 - 9448	PUMP 10,544 BBLs SLICK H2O & 374,636 LBS SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: **RECEIVED**

30. WELL STATUS:

PROD

JUN 02 2011

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/28/2011		TEST DATE: 5/4/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,795	WATER – BBL: 872	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,361	CSG. PRESS. 2,223	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,795	WATER – BBL: 872	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,413				
BIRD'S NEST	1,819				
MAHOGANY	2,138				
WASATCH	4,728	7,435			
MESAVERDE	7,435	9,637	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history and final survey. Completion chrono details individual frac stages.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 5/23/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010			End Date: 2/20/2011			
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
1/5/2011	6:00 - 16:00	10.00	DRLSUR	01	C	P		WAIT ON TRUCKS UNTIL 10:00 AM DUE TO BROKEN DOWN TRUCKS, SKID RIG TO WELL # 2/4 RIG UP. SLOW RIG SKID DUE TO ICE PINNING DOWN SUB	
	16:00 - 17:30	1.50	DRLSUR	14	A	P		WELDO ON CONDUCTOR AND RIG UP FLOW LINE	
	17:30 - 18:00	0.50	DRLSUR	06	A	P		PICK UP NEW MUD MOTOR, SHOCK SUB AND BIT	
	18:00 - 21:30	3.50	DRLSUR	08	B	Z		THAW OUT MUD PUMP ROD WASHERS AND AIR LINES	
	21:30 - 22:00	0.50	DRLSUR	02	C	P		SPUD WELL DRILL F/ 40' - 74' ROT 550 DHR 96 WOB 4-7 NO LOSSES GPM 610	
	22:00 - 0:00	2.00	DRLSUR	08	A	Z		THAW OUT AIR LINES AND MUD PUMP ROD WASH BOXES	
1/6/2011	0:00 - 1:30	1.50	DRLSUR	02	C	P		DRILL F/ 74' - 220' WOB 4-7 ROT 45-60 DHR 96 AVE ROP 97 FT HR	
	1:30 - 3:30	2.00	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL BHA INSTALL MWD TOOLS ORIENT TO MUD MOTOR AND TIH	
	3:30 - 13:30	10.00	DRLSUR	02	C	P		DRILL F/ 220' - 1172' AVE ROP 95 FT HR WOB 12-13 ROT 50-65 DHR 96 GPM 600 OBP 1210 OFBP 1025 NO LOSSES LAST SURVEY 9.88 DEG 5.5 AZI	
	13:30 - 14:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE	
	14:00 - 23:00	9.00	DRLSUR	02	C	P		DRILL F/ 1172' - 1899' AVE ROP 80 FT HR WOB 12-13 ROT 50-65 DHR 96 GPM 600 OBP 1210 OFBP 1025 NO LOSSES LAST SURVEY 3.81 DEG 13.92 AZI	
	23:00 - 0:00	1.00	DRLSUR	08	A	Z		WORK ON FORKLIFT	
1/7/2011	0:00 - 0:00	24.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28	
SPUD DATE/TIME: 1/5/2011 21:30									
SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,600 Total SURFACE hours: 31.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,537.0 # sx of cement: 200/225/150 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LAST JOINT OF CASING WOULD NOT GO DOWN LAID IT OVER AND PICKED UP LANDING JOINT. Describe hole issues: NONE									
	0:00 - 10:00	10.00	DRLSUR	02	C	P		DRILL F/ 1899' - 2600' T.D. AVE ROP 70 FT HR WOB 10-11 ROT 50-60 DHR 96 NO LOSSES OBP 1420 OFBP 1250 LAST SURVEY 1.28 DEG 209.9 AZI 1' BELOW 1.57' RIGHT	
	10:00 - 10:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010				Spud Date: 1/5/2011	
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310	
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:30 - 15:00	4.50	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK DOWN DIRECTIONAL TOOLS FOR INSPECTION L/D MWD TOOLS, MUD MOTOR, SHOCK SUB AND BIT
	15:00 - 19:00	4.00	DRLSUR	12	C	P		CONDUCT SAFETY MEETING AND RIG UP AND RUN 58 JOINTS OF 8.625 J-55 28# SURFACE CASING, LAST JOINT WOULD NOT GO DOWN, LAID IT OVER AND PICKED UP LANDING JOINT CASING SHOE AT 2537' FLOAT COLLAR AT 2493'
	19:00 - 21:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 144.5 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. 40 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. NO CEMENT TO SURFACE
	21:00 - 22:00	1.00	DRLSUR	14	A	P		CUT CONDUCTOR AND HUNG OFF 8 5/8 SURFACE CASING / RIG DOWN FLOW LINE
	22:00 - 0:00	2.00	DRLSUR	12	E	P		RUN 1" PIPE AND PUMP 150 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE, CEMENT FELL, WAIT TILL NEXT JOB TO TOP OUT. RELEASE RIG 1-8-2011 @ 00:00
2/12/2011	2:00 - 6:00	4.00	DRLPRO	01	C	P		R/D SKID RIG TO NBU 921-25G3CS
	6:00 - 8:00	2.00	DRLPRO	14	A	P		NIPPLE UP B.O.P'S & FLARE LINES
	8:00 - 10:00	2.00	DRLPRO	09	A	P		CUT DRILL LINE
	10:00 - 15:00	5.00	DRLPRO	15	A	P		TEST B.O.P'S - PIPE-BLINDS - 2" - 4" VALVES HCR - CHOKE MAINFOLD - 250 LOW - 5000 HIGH - ANNULAR 250 LOW 2500 HIGH - CASING TO 1500 PSI.
	15:00 - 15:30	0.50	DRLPRO	14	B	P		SET WEAR BUSHING
	15:30 - 19:00	3.50	DRLPRO	06	A	P		P/U MOTOR & BIT - MWD & SCRIBE TOOLS & T.I.H & TAG CEMENT @ 2508
	19:00 - 19:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK CENTER OF HOLE
	19:30 - 20:30	1.00	DRLPRO	02	F	P		DRILL SHOE TRACK
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DIR DRILL F/ 2605 TO 3200 = 595',AVG 170' FPH ,WOB15/18,RPM 42/115,STKS 102,GPM 502,PSI 1400/1750,TORG 8/6K,SLIDE 2%, ROT 98% - MW 8.6 VIS 26
	2/13/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P	
	11:30 - 12:00	0.50	DRLPRO	07	A	P		SER RIG
	12:00 - 0:00	12.00	DRLPRO	02	D	P		DIR DRILL F/ 4923 TO 6340 = 1417',AVG 118.08' FPH ,WOB15/18,RPM 42/107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 3%, ROT 97% - MW 9.3 VIS 38 LCM 5% (LOST 100 BBLS MUD @ 5686) PUMP LCM SWEEP & RAISE LCM TO 5%
2/14/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		DIR DRILL F/ 6340 TO 7009 = 669',AVG 55.75' FPH ,WOB16/20,RPM 42/107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 4%, ROT 96% - MW 10.2 VIS 38 LCM 6%
	12:00 - 12:30	0.50	DRLPRO	07	A	P		SER RIG

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD			Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING		Start Date: 12/7/2010		End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 7009 TO 7565 = 556' ,AVG 48.3' FPH ,WOB16/20,RPM 42/,107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 4%, ROT 96% - MW 11.0 VIS 39 LCM 6%
2/15/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DIR DRILL F/ 7565 TO 8006 = 441 ,AVG 40 FPH ,WOB16/20,RPM 42/,107 STKS 92 ,GPM 452,PSI 1850/,TORG 11/9K,SLIDE 18' OR 4%, MW 11.1VIS 39 LCM 7%
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/8006 TO 8478= 472,AVG 37 FPH ,WOB18/22,RPM 42/,107 STKS 90 ,GPM 442,PSI 1850/,TORG 18/12K,SLIDE 5%, ROT 95% - MW 11.6 VIS 41 LCM 8%
2/16/2011	0:00 - 7:30	7.50	DRLPRO	02	D	P		DIR DRILL F/8478 TO 8725=247,AVG 35 FPH ,WOB18/22,RPM 42/,107 STKS 90 ,GPM 442,PSI 1850/,TORG 18/12K,SLIDE 0%, ROT 100% - MW 11.7 VIS 42 LCM 8%
	7:30 - 19:30	12.00	DRLPRO	06	A	P		FLOW CK,PUMP OUT 5 STNDS,PUMPPILL,TOOH TO 4694',WORK STUCK PIPE FREE 3 HRS,TOOH L/D BIT & MTR
	19:30 - 20:00	0.50	DRLPRO	07	B	P		DRAIN BOP,PLUMB BOB ROTARY TO CSG,CHECKED OK,NO ADJUSTMENT
	20:00 - 0:00	4.00	DRLPRO	06	A	P		P/U BIT & MTR,SCRIBE TOOLS,TIH,CIRC @2200-5500
2/17/2011	0:00 - 6:30	6.50	DRLPRO	06	A	P		TIH TO 8443'
	6:30 - 7:00	0.50	DRLPRO	03	E	P		WASH & REAM F/8443 TO 8725
	7:00 - 11:00	4.00	DRLPRO	02	D	P		DIR DRILL F/ 8725 TO 8913=188,AVG 47 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 1900/2250,TORG 18/12K,SLIDE 0%, ROT 100% - MW 12.2 VIS 42 LCM 8%
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/ 8913 TO 9340 =427 ,AVG34 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 1900/2250,TORG 18/12K,SLIDE 0%, ROT 100% - MW 12.4 VIS 48 LCM 10%
2/18/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DIR DRILL F/9340 TO 9640 =300 ,AVG 34 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 2000/2300,TORG 18/12K,SLIDE 0%, MW 12.5+ VIS 52 LCM 10%
	8:00 - 9:00	1.00	DRLPRO	05	C	P		FINAL SURVEY@9581=2.13 DEG 123 AZI IS 17' SOUTH 10'EAST OF CENTER,FLOW CHECK NO FLOW,CIRC BTMS UP F/WIPER TRIP TO SHOE
	9:00 - 21:00	12.00	DRLPRO	06	E	P		PUMP OUT 5 STNDS,STRAIGHT PULL 60K OVER,TIGHT SPOT 8110',4900,CHECK CIRC @ SHOE,TIH GOOD
	21:00 - 22:30	1.50	DRLPRO	05	C	P		CIRC & CONDITION FOR LOGS
	22:30 - 0:00	1.50	DRLPRO	06	B	P		CHECK FLOW,PUMP OUT 3 STNDS,PUMPPILL TOOH F/LOGS
2/19/2011	0:00 - 7:30	7.50	DRLPRO	06	B	P		POOH F/LOGS,L/D BIT& MTR,STND BACK DIR TOOLS,PULL WEARRING
	7:30 - 13:00	5.50	EVALPR	11	D	P		SAFETY MEET W/HALLIBURTON,R/U RUN TRIPLE COMBO TO LOGGERS DEPTH 9620'
	13:00 - 15:00	2.00	EVALPR	11	E	P		SAFETY MEET W/PSI ,R/U RUN 40 MULTI FINGERCALIPER LOG,IN SURFACE CSG,OK
	15:00 - 0:00	9.00	CSG	12	C	P		RUN 227 JT & 2 MARKERS OF 4.5 11.6# I-80 BTC TO 9608',FC @ 9566',TEST FE 15 JTS,CIRC AT 4890,AVG TORQ 5000 TO MIDDLE OF DIAMOND
2/20/2011	0:00 - 1:30	1.50	CSG	12	C	P		FINISH CSG RUN TO 9608',FC 9566'
	1:30 - 2:30	1.00	CSG	05	D	P		CIRC BTMS UP,NO FLARE, .3 CUT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)				UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
	2:30 - 5:00	2.50	CSG	12	E	P		R/U HALLIBURTON PUMP 40BBLS H2O,LEAD=520SX #12.6 1.93 YLD 0%EXCESS,TAIL=1050SX #14.3 1.26YLD 5%EXCESS,DISPLACE 148 BBLS CLAYFIX,FINALLIFT 2750,BUMPPLUG,FLOATS HELD,5BBLS SPACER TO PIT,2BBL TO TRUCK,EST TOP OF LEAD 796'	
	5:00 - 6:00	1.00	RDMO	14	A	P		SET C-22 CSG SLIPS 94K,NDBOP & CUT-OFF,TRANSFER MUD 700 BBLS F/STORAGE	
	6:00 - 10:00	4.00	RDMO	01	E	P		CLEAN PIT,PREP F/SKID,RIG RELEASE @10:00 AM 2/20/2011 TO NBU 921-25J2CS WELL #3 OF 4	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 1/5/2011 21:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,600 Total SURFACE hours: 31.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,537.0 # sx of cement: 575 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: NA Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 2/12/2011 2:00 Rig Move/Skid finish date/time: 2/12/2011 6:00 Total MOVE hours: 4.0 Prod Rig Spud date/time: 2/12/2011 19:30 Rig Release date/time: 2/20/2011 10:00 Total SPUD to RR hours: 181.5 Planned depth MD 9,629 Planned depth TVD 9,615 Actual MD: 9,640 Actual TVD: 9,626 Open Wells \$: \$821,137 AFE \$: \$773,143 Open wells \$/ft: \$85.18</p> <p>PRODUCTION HOLE: Prod. From depth: 2,605 Prod. To depth: 9,640 Total PROD hours: 106 Log Depth: 9620 Float Collar Top Depth: 9566 Production Casing size: BTC I -80 # 11.6 - 4.5 # of casing joints ran: 229 Casing set MD: 9,608.0 Stage 1 # sx of cement: 520LEAD 1050TAIL Cement density (ppg): 12.6/14.3 Cement yield (ft3/sk): 1.26 1.93 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : LEAD 796' TAIL 4300 Describe cement issues: 0%/5% EXCESS,5BBLs SPACER BACK FINALLIFT 2750 Describe hole issues: MW 12.6,10%LCM,</p> <p>DIRECTIONAL INFO: KOP: 202 @ .59</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011		
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310	
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								Max angle: 9.88 Departure: 204.20 Max dogleg MD: 1.81

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3		
Event: COMPLETION			Start Date: 4/15/2011				End Date: 4/28/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/15/2011	9:00 - 11:00	2.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST FRAC VALVE & CSG T/ 1000 PSI FOR 15 MIN. LOST 0 PSI. PSI T/ 3500 PSI FOR 15 MIN. LOST 0 PSI. PSI TEST T/ 7000 PSI. LOST 80 PSI. 2ND TIME, PSI T/ 7000 PSI, LOST 45 PSI. GOOD TEST.	
	11:00 - 13:00	2.00	COMP	37	B	P		BLEED OFF PSI. MOVE OVER T/ NEXT WELL. PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 9446'-48', 4 SPF, 8 HOLES. 9420'-22', 4 SPF, 8 HOLES. 9374'-76', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH, SWI.	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011	End Date: 4/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2011	6:30 - 7:00	0.50	COMP	36	B	P		<p>FRAC STG 1)WHP 2070 PSI, BRK 3367 PSI @ 4.7 BPM. ISIP 2784 PSI, FG .73. PUMP 100 BBLS @ 49.2 BPM @ 5942 PSI = 89% HOLES OPEN. ISIP 3022 PSI, FG .76, NPI 238 PSI. MP 6636 PSI, MR 49.3 BPM, AP 5617 PSI, AR 45.4 BPM, PMP 1427 BBLS SW & 44,987 LBS OF 30/50 SND & 5037 LBS OF 20/40 SLC SND. TOTAL PROP 50,024 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 12 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9186' P/U PERF F/ 9132'-36', 4 SPF, 16 HOLES. 9124'-26', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1793 PSI, BRK 3438 PSI @ 4.5 BPM. ISIP 2849 PSI, FG .75. PUMP 100 BBLS @ 44.3 BPM @ 5724 PSI = 81% HOLES OPEN. ISIP 2998 PSI, FG .77, NPI 149 PSI. MP 6642 PSI, MR 49.9 BPM, AP 5964 PSI, AR 49.3 BPM, PMP 661 BBLS SW & 16,534 LBS OF 30/50 SND & 5077 LBS OF 20/40 SLC SND. TOTAL PROP 21,611 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8902' P/U PERF F/ 8850'-52', 4 SPF, 8 HOLES. 8830'-32', 4 SPF, 8 HOLES. 8730'-32', 3 SPF, 6 HOLES. 22 HOLES TOTAL.</p> <p>FRAC STG 3)WHP 1549 PSI, BRK 2875 PSI @ 4.4 BPM. ISIP 2446 PSI, FG .72. PUMP 100 BBLS @ 47.4 BPM @ 5490 PSI = 90% HOLES OPEN. ISIP 2687 PSI, FG .74, NPI 241 PSI. MP 6612 PSI, MR 51.2 BPM, AP 5595 PSI, AR 49.6 BPM, PMP 830 BBLS SW & 26,058 LBS OF 30/50 SND & 4394 LBS OF 20/40 SLC SND. TOTAL PROP 30,452 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUNS, 223 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8309' P/U PERF F/ 8256'-59', 4 SPF, 12 HOLES. 8228'-30', 3 SPF, 6 HOLES. 8195'-97', 3 SPF, 6 HOLES. 24 HOLES TOTAL. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4)WHP 1318 PSI, BRK 2738 PSI @ 4.5 BPM. ISIP 2322 PSI, FG .72. PUMP 100 BBLS @ 35.3 BPM @ 4719 PSI = 66% HOLES OPEN. ISIP 2719 PSI, FG .77, NPI 377 PSI. MP 6201 PSI, MR 50.3 BPM, AP 5535 PSI, AR 48.6 BPM, PMP 621 BBLS SW & 16,691 LBS OF 30/50 SND & 4864 LBS OF 20/40 SLC SND. TOTAL PROP</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3		
Event: COMPLETION			Start Date: 4/15/2011				End Date: 4/28/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)				UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
								21,555 LBS. SWI, X-OVER FOR WL.	
								PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8145' P/U PERF F/ 8104'-06', 4 SPF, 8 HOLES.	
								8090'-91', 4 SPF, 4 HOLES.	
								7884'-86', 3 SPF, 6 HOLES.	
								7848'-50', 3 SPF, 6 HOLES. 24 HOLES.	
								HSM. HIGH PSI LINES & WL SAFETY.	
4/19/2011	6:30 - 6:45	0.25	COMP	48		P			

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011	End Date: 4/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		<p>FRAC STG 5)WHP 1372 PSI, BRK 2985 PSI @ 2.9 BPM. ISIP 2224 PSI, FG .72. PUMP 100 BBLS @ 49 BPM @ 5832 PSI = 74% HOLES OPEN. ISIP 2482 PSI, FG .75, NPI 258 PSI. MP 5979 PSI, MR 53.4 BPM, AP 4858 PSI, AR 51.1 BPM, PMP 1454 BBLS SW & 53,504 LBS OF 30/50 SND & 4919 LBS OF 20/40 SLC SND. TOTAL PROP 58,423 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7796' P/U PERF F/ 7754'-56', 4 SPF, 8 HOLES. 7686'-88', 4 SPF, 8 HOLES. 7618'-20', 4 SPF, 8 HOLES. 24 TOTAL HOLES.</p> <p>FRAC STG 6)WHP 1237 PSI, BRK 2889 PSI @ 4.5 BPM. ISIP 1897 PSI, FG .69. PUMP 100 BBLS @ 41.5 BPM @ 5137 PSI = 63% HOLES OPEN. ISIP 2101 PSI, FG .71, NPI 204 PSI. MP 5994 PSI, MR 53.1 BPM, AP 5407 PSI, AR 51.5 BPM, PMP 667 BBLS SW & 17,823 LBS OF 30/50 SND & 5604 LBS OF 20/40 SLC SND. TOTAL PROP 23,427 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7567' P/U PERF F/ 7514'-17', 12 HOLES. 7461'-64', 12 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 1156 PSI, BRK 2562 PSI @ 4.7 BPM. ISIP 1504 PSI, FG .64. PUMP 100 BBLS @ 51.4 BPM @ 6085 PSI = 65% HOLES OPEN. ISIP 2543 PSI, FG .78, NPI 1039 PSI. MP 6583 PSI, MR 53.5 BPM, AP 5513 PSI, AR 51 BPM, PMP 2605 BBLS SW & 104,968 LBS OF 30/50 SND & 5033 LBS OF 20/40 SLC SND. TOTAL PROP 110,001 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7309' P/U PERF F/ 7256'-59', 4 SPF, 12 HOLES. 7161'-64', 4 SPF, 12 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 597 PSI, BRK 1704 PSI @ 3.7 BPM. ISIP 1400 PSI, FG .63. PUMP 100 BBLS @ BPM @ 0000 PSI = 00% HOLES OPEN. ISIP 2655 PSI, FG .81, NPI 1255 PSI. MP 5854 PSI, MR 53.3 BPM, AP 5081 PSI, AR 51.9 BPM, PMP 1279 BBLS SW & 53,749 LBS OF 30/50 SND & 5394 LBS OF 20/40 SLC SND. TOTAL PROP 59,143 LBS. SWI, X-OVER FOR WL.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD			Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/27/2011	7:00 - 17:30	10.50	COMP	30		P		<p>PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7111'. POOH, SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 374,636 LBS TOTAL CLFL = 10,544 BBLS TOTAL SCALE = 1126 GAL TOTAL BIO = 255 GAL 7AM [DAY 4] JSA--R/U RIG, P/U TBG, DRLG PLUGS, PSI.</p> <p>NDWH, NUBOP YESTERDAY. MIRU, R/U FLOOR & TBG EQUIPMENT. P/U 3-7/8" SEALED BRG BIT, POBS W/ XN , NEW 2-3/8 L-80 TBG & RIH. TAG SAND & 7086'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. P.T SURFACE LINES & BOP TO 3000# FOR 15 MINUTES. LOST 0# IN 15 MINUTES. C/O 25' SAND TO CBP#1. FCP=50#.</p> <p>[DRLG CBP#1] @ 7111'. D/O HALL 8K CBP IN 6 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#2. FCP=150#.</p> <p>[DRLG CBP#2] @ 7289'. D/O HALL 8K CBP IN 4 MIN. 400# INC. RIH & C/O 70' SAND TO CBP#3. FCP=550#.</p> <p>[DRLG CBP#3] @ 7550'. D/O HALL 8K CBP IN 6 MIN. 0# INC. RIH & C/O 65' SAND TO CBP#4. FCP=450#.</p> <p>[DRLG CBP#4] @ 7796'. D/O HALL 8K CBP IN 4 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#5. FCP=500#.</p> <p>[DRLG CBP#5] @ 8145'. D/O HALL 8K CBP IN 4 MIN. 130# INC. RIH & C/O 30' SAND TO CBP#6. FCP=480#.</p> <p>[DRLG CBP#6] @ 8300'. D/O HALL 8K CBP IN 7 MIN. 200# INC. RIH & C/O 30' SAND TO CBP#7. CIRCULATE WELL CLEAN. FCP=600#. PUH W/ EOT @ 8859'.</p> <p>5:30 PM SWI-SDFN. PREP TO D/O 2 PLUGS, C/O TO PBTD & LAND TBG IN AM.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/28/2011	7:00 - 15:00	8.00	COMP	30		P		<p>7AM [DAY 5] JSA--DRLG PLUGS, PSI, LANDING TBG. R/D RIG.</p> <p>SITP=0#, SICP=2300#. EOT @ 8859'. OPEN WELL TO PIT & BLEED OFF PRESSURE TO 1000# IN 35 MINUTES. ESTABLISH CIRCULATION. CONTINUE DRLG PLUGS. FCP=900#.</p> <p>[DRLG CBP#7] @ 8890'. D/O HALL 8K CBP IN 4 MIN. 0# INC. RIH & C/O 30' SAND TO CBP#8. FCP=900#.</p> <p>[DRLG CBP#8] @ 9188'. PLUG WAS SET @ 9156'-PLUG SLID DOWN HOLE DURING FRAC. D/O HALL 8K CBP IN 4 MIN. RIH & TAG SAND @ 9460'. C/O 80' SAND TO PBTD @ 9540'. DRLG HARD, QUIT DRLG. ORIG PBTD @ 9563'. B.P @ 9448'. 92' RATHOLE. CIRCULATE WELL CLEAN. FCP=700#. R/D SWVL. POOH & L/D 15 JTS ON FLOAT. LAND TBG ON HANGER W/ 288 JTS NEW 2-3/8" L-80 TBG. EOT @ 9116.75', POBS W/ XN @ 9114.55'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DOWN TBG & PUMP OFF THE BIT @ 2100#.</p> <p>OPEN WELL TO FBT ON OPEN CHOKE. UNLOAD TBG VOLUME. FTP=2000#, SICP=2000#.</p> <p>12 PM TURN WELL OVER TO DELSCO FBC & APC MAINT. CREW. SELLING GAS @ 1.6 MCF DAILY RATE. RIG PMPD 230 BBLS. LTR= 8344 BBLS.</p> <p>R/D RIG. MOVE OVER & R/U ON NBU 921-25J2CS. [YELLOW WELL] NDWH, NUBOP. R/U FLOOR & TBG EQUIPMENT.</p> <p>3 PM SDFD</p> <p>314 JTS DELIVERED 288 JTS LANDED 24 JTS RETURNED 2 JUNK - LEFT ON GROUND TO BE HAULED OFF.</p> <p>WELL TURNED TO SALES @ 1130 HR ON 4/28/11 - 1500 MCFD, 1920 BWPD, CP 2000#, FTP 1500#, CK 20/64"</p>
5/4/2011	7:00 -			50				<p>WELL IP'D ON 5/4/11 - 2795 MCFD, 0 BOPD, 872 BWPD, CP 2223#, FTP 1361#, CK 20/64", LP 126#, 24 HRS</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25G3CS BLUE	Wellbore No.	OH
Well Name	NBU 921-25G3CS	Common Name	NBU 921-25G3CS
Project	UTAH-UINTAH	Site	NBU 921-25J2 PAD
Vertical Section Azimuth	29.36 (°)	North Reference	True
Origin N/S	0.0 (ft)	Origin E/W	0.0 (ft)
Spud Date	1/5/2011	UWI	NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/25 87/0/0
Active Datum	RKB @4,944.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	1/6/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
5.00	0.00	0.00	5.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/6/2011	Tie On	5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/6/2011	NORMAL	202.00	0.59	53.39	202.00	0.60	0.81	0.93	0.30	0.30	0.00	53.39
	NORMAL	294.00	1.94	35.42	293.97	2.16	2.10	2.91	1.51	1.47	-19.53	-25.49
	NORMAL	388.00	2.94	16.17	387.89	5.77	3.69	6.84	1.36	1.06	-20.48	-49.22
	NORMAL	483.00	4.25	8.67	482.70	11.59	4.90	12.50	1.46	1.38	-7.89	-23.52
	NORMAL	578.00	5.88	5.92	577.32	19.91	5.93	20.26	1.73	1.72	-2.89	-9.84
	NORMAL	674.00	7.38	7.42	672.68	30.92	7.24	30.49	1.57	1.56	1.56	7.33
	NORMAL	769.00	8.63	9.80	766.75	43.99	9.24	42.87	1.36	1.32	2.51	16.03
	NORMAL	864.00	9.25	16.92	860.60	58.32	12.67	57.04	1.33	0.65	7.49	64.28
	NORMAL	959.00	9.13	12.17	954.38	72.99	16.48	71.70	0.81	-0.13	-5.00	-101.33
	NORMAL	1,053.00	9.56	4.05	1,047.14	88.07	18.61	85.88	1.47	0.46	-8.64	-75.97
	NORMAL	1,148.00	9.88	5.05	1,140.78	104.06	19.88	100.44	0.38	0.34	1.05	28.31
	NORMAL	1,243.00	9.88	5.80	1,234.37	120.28	21.42	115.33	0.14	0.00	0.79	90.37
	NORMAL	1,339.00	9.63	9.67	1,328.98	136.39	23.60	130.44	0.73	-0.26	4.03	112.77
	NORMAL	1,434.00	9.19	11.17	1,422.70	151.67	26.41	145.13	0.53	-0.46	1.58	151.60
	NORMAL	1,528.00	8.06	9.17	1,515.64	165.54	28.91	158.45	1.24	-1.20	-2.13	-166.12
	NORMAL	1,622.00	6.38	11.55	1,608.89	177.16	31.01	169.61	1.81	-1.79	2.53	171.08
	NORMAL	1,718.00	4.75	16.92	1,704.43	186.19	33.23	178.57	1.78	-1.70	5.59	164.94
	NORMAL	1,813.00	3.81	13.92	1,799.17	193.02	35.14	185.45	1.02	-0.99	-3.16	-168.10
	NORMAL	1,907.00	2.88	6.30	1,893.01	198.40	36.15	190.63	1.09	-0.99	-8.11	-158.22
	NORMAL	2,003.00	2.19	333.05	1,988.92	202.43	35.58	193.87	1.66	-0.72	-34.64	-131.12

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/6/2011	NORMAL	2,098.00	1.25	10.80	2,083.88	205.07	34.95	195.86	1.50	-0.99	39.74	147.51
	NORMAL	2,193.00	1.00	38.42	2,178.86	206.73	35.66	197.66	0.62	-0.26	29.07	128.13
1/7/2011	NORMAL	2,288.00	0.94	124.55	2,273.85	206.94	36.82	198.41	1.40	-0.06	90.66	134.96
	NORMAL	2,382.00	0.88	127.67	2,367.84	206.06	38.03	198.23	0.08	-0.06	3.32	142.00
	NORMAL	2,477.00	1.19	186.42	2,462.82	204.64	38.49	197.22	1.11	0.33	61.84	104.47
	NORMAL	2,545.00	1.28	209.90	2,530.81	203.28	38.04	195.81	0.75	0.13	34.53	91.79

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	SDI
Started	2/12/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,545.00	1.28	209.90	2,530.81	203.28	38.04

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/12/2011	Tie On	2,545.00	1.28	209.90	2,530.81	203.28	38.04	195.81	0.00	0.00	0.00	0.00
2/12/2011	NORMAL	2,613.00	1.04	216.75	2,598.79	202.12	37.29	194.44	0.41	-0.35	10.07	153.37
	NORMAL	2,704.00	1.08	217.69	2,689.78	200.78	36.27	192.77	0.05	0.04	1.03	23.97
	NORMAL	2,794.00	1.37	193.12	2,779.76	199.06	35.51	190.90	0.66	0.32	-27.30	-73.75
	NORMAL	2,885.00	0.14	80.42	2,870.75	198.02	35.37	189.92	1.57	-1.35	-123.85	-174.82
	NORMAL	2,976.00	0.39	176.79	2,961.75	197.73	35.50	189.73	0.47	0.27	105.90	115.31
	NORMAL	3,066.00	0.84	192.34	3,051.74	196.78	35.37	188.84	0.53	0.50	17.28	28.24
	NORMAL	3,158.00	0.97	174.33	3,143.73	195.35	35.30	187.56	0.34	0.14	-19.58	-74.62
	NORMAL	3,247.00	0.37	127.86	3,232.73	194.42	35.61	186.90	0.86	-0.67	-52.21	-159.44
	NORMAL	3,338.00	0.67	163.25	3,323.72	193.73	35.99	186.49	0.47	0.33	38.89	65.58
	NORMAL	3,428.00	0.92	176.42	3,413.72	192.51	36.19	185.52	0.34	0.28	14.63	42.87
	NORMAL	3,519.00	0.81	178.73	3,504.70	191.13	36.25	184.35	0.13	-0.12	2.54	163.56
	NORMAL	3,609.00	0.96	118.80	3,594.70	190.14	36.92	183.81	0.99	0.17	-66.59	-111.60
	NORMAL	3,700.00	1.19	146.59	3,685.68	188.98	38.11	183.39	0.62	0.25	30.54	80.51
	NORMAL	3,790.00	1.21	161.92	3,775.66	187.30	38.92	182.32	0.36	0.02	17.03	94.12
	NORMAL	3,881.00	1.33	157.17	3,866.64	185.41	39.63	181.02	0.18	0.13	-5.22	-43.65
	NORMAL	3,971.00	1.74	174.19	3,956.61	183.09	40.17	179.26	0.68	0.46	18.91	56.75
2/13/2011	NORMAL	4,060.00	1.24	98.67	4,045.58	181.60	41.26	178.50	2.10	-0.56	-84.85	-139.97
	NORMAL	4,150.00	1.02	129.08	4,135.57	180.95	42.85	178.71	0.70	-0.24	33.79	124.91
	NORMAL	4,241.00	1.47	160.88	4,226.55	179.33	43.86	177.80	0.89	0.49	34.95	73.50
	NORMAL	4,331.00	1.47	160.88	4,316.52	177.15	44.61	176.27	0.00	0.00	0.00	0.00
	NORMAL	4,422.00	1.34	153.82	4,407.49	175.09	45.46	174.89	0.24	-0.14	-7.76	-130.40
	NORMAL	4,512.00	1.67	166.28	4,497.46	172.87	46.24	173.34	0.51	0.37	13.84	51.10
	NORMAL	4,603.00	1.07	143.30	4,588.43	170.91	47.06	172.02	0.88	-0.66	-25.25	-148.62
	NORMAL	4,694.00	0.34	176.76	4,679.43	169.95	47.59	171.45	0.89	-0.80	36.77	166.59
	NORMAL	4,784.00	0.73	171.04	4,769.42	169.12	47.69	170.78	0.44	0.43	-6.36	-10.66
	NORMAL	4,875.00	0.68	63.83	4,860.42	168.79	48.26	170.77	1.25	-0.05	-117.81	-145.10
	NORMAL	4,965.00	0.62	50.58	4,950.41	169.33	49.12	171.66	0.18	-0.07	-14.72	-118.30
	NORMAL	5,056.00	0.44	52.32	5,041.41	169.86	49.78	172.44	0.20	-0.20	1.91	175.76
	NORMAL	5,146.00	0.33	120.30	5,131.41	169.94	50.27	172.76	0.49	-0.12	75.53	135.95
	NORMAL	5,237.00	0.51	120.91	5,222.40	169.60	50.85	172.74	0.20	0.20	0.67	1.73
	NORMAL	5,327.00	0.74	154.43	5,312.40	168.87	51.44	172.40	0.47	0.26	37.24	75.33
	NORMAL	5,418.00	0.81	26.97	5,403.39	168.91	51.99	172.70	1.53	0.08	-140.07	-152.45

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/13/2011	NORMAL	5,508.00	0.80	20.07	5,493.39	170.07	52.49	173.96	0.11	-0.01	-7.67	-99.33
	NORMAL	5,598.00	0.74	351.13	5,583.38	171.23	52.62	175.03	0.43	-0.07	-32.16	-113.05
	NORMAL	5,689.00	0.47	286.88	5,674.37	171.92	52.17	175.42	0.75	-0.30	-70.60	-141.69
	NORMAL	5,780.00	0.74	257.68	5,765.37	171.91	51.24	174.94	0.44	0.30	-32.09	-64.01
	NORMAL	5,870.00	0.82	256.52	5,855.36	171.63	50.05	174.12	0.09	0.09	-1.29	-11.75
	NORMAL	5,961.00	0.94	225.07	5,946.35	170.95	48.88	172.96	0.54	0.13	-34.56	-92.11
	NORMAL	6,051.00	0.12	261.51	6,036.35	170.42	48.27	172.19	0.94	-0.91	40.49	175.17
	NORMAL	6,142.00	0.26	161.39	6,127.34	170.21	48.24	171.99	0.34	0.15	-110.02	-122.92
	NORMAL	6,232.00	0.78	83.63	6,217.34	170.08	48.91	172.21	0.85	0.58	-86.40	-97.08
	NORMAL	6,322.00	0.80	93.19	6,307.33	170.11	50.15	172.85	0.15	0.02	10.62	86.17
	NORMAL	6,413.00	1.11	115.76	6,398.32	169.70	51.58	173.18	0.53	0.34	24.80	62.16
	NORMAL	6,503.00	0.90	76.28	6,488.31	169.48	53.05	173.72	0.79	-0.23	-43.87	-125.97
2/14/2011	NORMAL	6,594.00	1.37	85.99	6,579.29	169.73	54.83	174.81	0.56	0.52	10.67	27.16
	NORMAL	6,685.00	1.11	54.74	6,670.27	170.32	56.63	176.20	0.78	-0.29	-34.34	-126.17
	NORMAL	6,775.00	0.59	57.77	6,760.26	171.07	57.74	177.40	0.58	-0.58	3.37	176.57
	NORMAL	6,866.00	0.77	53.92	6,851.25	171.68	58.63	178.37	0.20	0.20	-4.23	-16.17
	NORMAL	6,956.00	0.74	63.70	6,941.25	172.29	59.64	179.40	0.15	-0.03	10.87	107.96
	NORMAL	7,047.00	0.63	147.15	7,032.24	172.13	60.44	179.65	1.01	-0.12	91.70	136.87
	NORMAL	7,137.00	1.00	160.76	7,122.23	170.97	60.96	178.90	0.46	0.41	15.12	34.53
	NORMAL	7,228.00	0.52	33.06	7,213.23	170.57	61.45	178.79	1.52	-0.53	-140.33	-162.66
	NORMAL	7,318.00	0.34	357.42	7,303.22	171.18	61.66	179.42	0.35	-0.20	-39.60	-140.89
	NORMAL	7,409.00	0.36	120.78	7,394.22	171.30	61.89	179.64	0.68	0.02	135.56	150.80
	NORMAL	7,499.00	0.51	67.17	7,484.22	171.31	62.51	179.95	0.46	0.17	-59.57	-97.96
	NORMAL	7,590.00	0.91	120.86	7,575.22	171.10	63.50	180.25	0.81	0.44	59.00	87.74
2/15/2011	NORMAL	7,680.00	0.52	84.76	7,665.21	170.77	64.52	180.47	0.64	-0.43	-40.11	-147.97
	NORMAL	7,771.00	0.17	266.65	7,756.21	170.80	64.80	180.63	0.76	-0.38	-195.73	-179.53
	NORMAL	7,862.00	0.27	171.17	7,847.21	170.58	64.69	180.39	0.37	0.11	-104.92	-126.07
	NORMAL	7,952.00	0.45	147.18	7,937.21	170.07	64.92	180.05	0.26	0.20	-26.66	-52.35
	NORMAL	8,043.00	0.84	138.13	8,028.20	169.28	65.56	179.67	0.44	0.43	-9.95	-19.19
	NORMAL	8,133.00	0.57	145.44	8,118.19	168.42	66.25	179.26	0.32	-0.30	8.12	165.21
	NORMAL	8,224.00	0.68	250.70	8,209.19	167.86	66.00	178.66	1.09	0.12	115.67	138.78
	NORMAL	8,314.00	1.04	213.26	8,299.18	167.00	65.05	177.44	0.72	0.40	-41.60	-77.02
	NORMAL	8,405.00	0.71	211.51	8,390.17	165.83	64.30	176.06	0.36	-0.36	-1.92	-176.24
	NORMAL	8,495.00	1.17	197.13	8,480.16	164.48	63.74	174.60	0.57	0.51	-15.98	-34.46
	NORMAL	8,586.00	1.88	200.83	8,571.12	162.20	62.93	172.22	0.79	0.78	4.07	9.75
	NORMAL	8,676.00	1.66	177.55	8,661.08	159.51	62.46	169.65	0.83	-0.24	-25.87	-118.42
2/16/2011	NORMAL	8,767.00	0.76	185.89	8,752.06	157.60	62.46	167.98	1.01	-0.99	9.16	173.08
	NORMAL	8,857.00	1.03	184.71	8,842.05	156.20	62.33	166.69	0.30	0.30	-1.31	-4.50
	NORMAL	8,948.00	1.38	165.70	8,933.03	154.32	62.53	165.16	0.58	0.38	-20.89	-58.56
	NORMAL	9,038.00	1.78	164.32	9,023.00	151.92	63.18	163.39	0.45	0.44	-1.53	-6.12
	NORMAL	9,129.00	1.87	154.13	9,113.95	149.23	64.21	161.54	0.37	0.10	-11.20	-79.63
	NORMAL	9,219.00	2.21	136.17	9,203.89	146.65	66.05	160.20	0.80	0.38	-19.96	-71.17
	NORMAL	9,310.00	2.01	128.17	9,294.83	144.40	68.52	159.45	0.39	-0.22	-8.79	-128.13
	NORMAL	9,400.00	1.88	119.84	9,384.78	142.69	71.04	159.20	0.35	-0.14	-9.26	-118.82
	NORMAL	9,491.00	1.72	114.84	9,475.74	141.38	73.58	159.29	0.25	-0.18	-5.49	-138.01
	NORMAL	9,581.00	2.13	123.34	9,565.68	139.89	76.20	159.28	0.55	0.46	9.44	39.15
	NORMAL	9,640.00	2.13	123.34	9,624.64	138.68	78.03	159.13	0.00	0.00	0.00	0.00

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:
P.O. BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: NWSE 2606 FSL 2587 FEL S25, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: SWNE 2506 FNL 2526 FEL S25, T9S, R21E

AT TOTAL DEPTH: SWNE 2538 FNL 2509 FEL S25, T9S, R21E

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25G3CS

9. API NUMBER:
4304751275

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUDDED:
12/7/2010

15. DATE T.D. REACHED:
2/18/2011

16. DATE COMPLETED:
4/28/2011

ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
4930 GL

18. TOTAL DEPTH: MD 9,640
TVD 9,625

19. PLUG BACK T.D.: MD 9,565
TVD 9,550

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

SCBL-BHV-SD/DSN/ACTR

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,543		575		0	
7 7/8"	4 1/2" I-80	11.6#		9,608		1,570		940	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,117							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	7,161	7,259			7,161 7,259	0.36	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,461	9,448			7,461 9,448	0.36	169	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7161 - 9448	PUMP 10,544 BBLs SLICK H2O & 374,636 LBS SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: **RECEIVED**

30. WELL STATUS:

PROD

JUN 02 2011

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/28/2011		TEST DATE: 5/4/2011		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,795	WATER – BBL: 872	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,361	CSG. PRESS. 2,223	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,795	WATER – BBL: 872	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,413				
BIRD'S NEST	1,819				
MAHOGANY	2,138				
WASATCH	4,728	7,435			
MESAVERDE	7,435	9,637	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history and final survey. Completion chrono details individual frac stages.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 5/23/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010			End Date: 2/20/2011			
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
1/5/2011	6:00 - 16:00	10.00	DRLSUR	01	C	P		WAIT ON TRUCKS UNTIL 10:00 AM DUE TO BROKEN DOWN TRUCKS, SKID RIG TO WELL # 2/4 RIG UP. SLOW RIG SKID DUE TO ICE PINNING DOWN SUB	
	16:00 - 17:30	1.50	DRLSUR	14	A	P		WELDO ON CONDUCTOR AND RIG UP FLOW LINE	
	17:30 - 18:00	0.50	DRLSUR	06	A	P		PICK UP NEW MUD MOTOR, SHOCK SUB AND BIT	
	18:00 - 21:30	3.50	DRLSUR	08	B	Z		THAW OUT MUD PUMP ROD WASHERS AND AIR LINES	
	21:30 - 22:00	0.50	DRLSUR	02	C	P		SPUD WELL DRILL F/ 40' - 74' ROT 550 DHR 96 WOB 4-7 NO LOSSES GPM 610	
	22:00 - 0:00	2.00	DRLSUR	08	A	Z		THAW OUT AIR LINES AND MUD PUMP ROD WASH BOXES	
1/6/2011	0:00 - 1:30	1.50	DRLSUR	02	C	P		DRILL F/ 74' - 220' WOB 4-7 ROT 45-60 DHR 96 AVE ROP 97 FT HR	
	1:30 - 3:30	2.00	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL BHA INSTALL MWD TOOLS ORIENT TO MUD MOTOR AND TIH	
	3:30 - 13:30	10.00	DRLSUR	02	C	P		DRILL F/ 220' - 1172' AVE ROP 95 FT HR WOB 12-13 ROT 50-65 DHR 96 GPM 600 OBP 1210 OFBP 1025 NO LOSSES LAST SURVEY 9.88 DEG 5.5 AZI	
	13:30 - 14:00	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE	
	14:00 - 23:00	9.00	DRLSUR	02	C	P		DRILL F/ 1172' - 1899' AVE ROP 80 FT HR WOB 12-13 ROT 50-65 DHR 96 GPM 600 OBP 1210 OFBP 1025 NO LOSSES LAST SURVEY 3.81 DEG 13.92 AZI	
	23:00 - 0:00	1.00	DRLSUR	08	A	Z		WORK ON FORKLIFT	
1/7/2011	0:00 - 0:00	24.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28	
SPUD DATE/TIME: 1/5/2011 21:30									
SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,600 Total SURFACE hours: 31.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,537.0 # sx of cement: 200/225/150 Cement blend (ppg): 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LAST JOINT OF CASING WOULD NOT GO DOWN LAID IT OVER AND PICKED UP LANDING JOINT. Describe hole issues: NONE									
	0:00 - 10:00	10.00	DRLSUR	02	C	P		DRILL F/ 1899' - 2600' T.D. AVE ROP 70 FT HR WOB 10-11 ROT 50-60 DHR 96 NO LOSSES OBP 1420 OFBP 1250 LAST SURVEY 1.28 DEG 209.9 AZI 1' BELOW 1.57' RIGHT	
	10:00 - 10:30	0.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
	10:30 - 15:00	4.50	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING BREAK DOWN DIRECTIONAL TOOLS FOR INSPECTION L/D MWD TOOLS, MUD MOTOR, SHOCK SUB AND BIT	
	15:00 - 19:00	4.00	DRLSUR	12	C	P		CONDUCT SAFETY MEETING AND RIG UP AND RUN 58 JOINTS OF 8.625 J-55 28# SURFACE CASING, LAST JOINT WOULD NOT GO DOWN, LAID IT OVER AND PICKED UP LANDING JOINT CASING SHOE AT 2537' FLOAT COLLAR AT 2493'	
	19:00 - 21:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLS OF WATER AHEAD, PUMP 20 BBLS OF GEL WATER. PUMP 200 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 144.5 BBLS OF WATER. 490 PSI OF LIFT @ 2 BBLS/MIN RATE. 40 BBLS OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD. NO CEMENT TO SURFACE	
	21:00 - 22:00	1.00	DRLSUR	14	A	P		CUT CONDUCTOR AND HUNG OFF 8 5/8 SURFACE CASING / RIG DOWN FLOW LINE	
	22:00 - 0:00	2.00	DRLSUR	12	E	P		RUN 1" PIPE AND PUMP 150 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. CEMENT TO SURFACE, CEMENT FELL, WAIT TILL NEXT JOB TO TOP OUT. RELEASE RIG 1-8-2011 @ 00:00	
2/12/2011	2:00 - 6:00	4.00	DRLPRO	01	C	P		R/D SKID RIG TO NBU 921-25G3CS	
	6:00 - 8:00	2.00	DRLPRO	14	A	P		NIPPLE UP B.O.P'S & FLARE LINES	
	8:00 - 10:00	2.00	DRLPRO	09	A	P		CUT DRILL LINE	
	10:00 - 15:00	5.00	DRLPRO	15	A	P		TEST B.O.P'S - PIPE-BLINDS - 2" - 4" VALVES HCR - CHOKE MAINFOLD - 250 LOW - 5000 HIGH - ANNULAR 250 LOW 2500 HIGH - CASING TO 1500 PSI.	
	15:00 - 15:30	0.50	DRLPRO	14	B	P		SET WEAR BUSHING	
	15:30 - 19:00	3.50	DRLPRO	06	A	P		P/U MOTOR & BIT - MWD & SCRIBE TOOLS & T.I.H & TAG CEMENT @ 2508	
	19:00 - 19:30	0.50	DRLPRO	07	B	P		LEVEL DERRICK CENTER OF HOLE	
	19:30 - 20:30	1.00	DRLPRO	02	F	P		DRILL SHOE TRACK	
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DIR DRILL F/ 2605 TO 3200 = 595' ,AVG 170' FPH ,WOB15/18,RPM 42/115,STKS 102,GPM 502,PSI 1400/1750,TORG 8/6K,SLIDE 2%, ROT 98% - MW 8.6 VIS 26	
								DIR DRILL F/ 3200 TO 4923 = 1723' ,AVG 149.8' FPH ,WOB15/18,RPM 42/115,STKS 102,GPM 502,PSI 1400/1750,TORG 8/6K,SLIDE 8%, ROT 92% - MW 8.6 VIS 26	
2/13/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		SER RIG	
	11:30 - 12:00	0.50	DRLPRO	07	A	P		DIR DRILL F/ 4923 TO 6340 = 1417' ,AVG 118.08' FPH ,WOB15/18,RPM 42/107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 3%, ROT 97% - MW 9.3 VIS 38 LCM 5% (LOST 100 BBLS MUD @ 5686) PUMP LCM SWEEP & RAISE LCM TO 5%	
	12:00 - 0:00	12.00	DRLPRO	02	D	P		DIR DRILL F/ 6340 TO 7009 = 669' ,AVG 55.75' FPH ,WOB16/20,RPM 42/107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 4%, ROT 96% - MW 10.2 VIS 38 LCM 6%	
2/14/2011	0:00 - 12:00	12.00	DRLPRO	02	D	P		SER RIG	
	12:00 - 12:30	0.50	DRLPRO	07	A	P			

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010				Spud Date: 1/5/2011	
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310	
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 7009 TO 7565 = 556' ,AVG 48.3' FPH ,WOB16/20,RPM 42/,107 STKS 95 ,GPM 467,PSI 1600/1850,TORG 8/6K,SLIDE 4% , ROT 96% - MW 11.0 VIS 39 LCM 6%
2/15/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DIR DRILL F/ 7565 TO 8006 = 441 ,AVG 40 FPH ,WOB16/20,RPM 42/,107 STKS 92 ,GPM 452,PSI 1850/,TORG 11/9K,SLIDE 18' OR 4% , MW 11.1VIS 39 LCM 7%
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRILL F/8006 TO 8478= 472,AVG 37 FPH ,WOB18/22,RPM 42/,107 STKS 90 ,GPM 442,PSI 1850/,TORG 18/12K,SLIDE 5% , ROT 95% - MW 11.6 VIS 41 LCM 8%
2/16/2011	0:00 - 7:30	7.50	DRLPRO	02	D	P		DIR DRILL F/8478 TO 8725=247,AVG 35 FPH ,WOB18/22,RPM 42/,107 STKS 90 ,GPM 442,PSI 1850/,TORG 18/12K,SLIDE 0% , ROT 100% - MW 11.7 VIS 42 LCM 8%
	7:30 - 19:30	12.00	DRLPRO	06	A	P		FLOW CK,PUMP OUT 5 STNDS,PUMPPILL,TOOH TO 4694',WORK STUCK PIPE FREE 3 HRS,TOOH L/D BIT & MTR
	19:30 - 20:00	0.50	DRLPRO	07	B	P		DRAIN BOP,PLUMB BOB ROTARY TO
	20:00 - 0:00	4.00	DRLPRO	06	A	P		CSG,CHECKED OK,NO ADJUSTMENT
2/17/2011	0:00 - 6:30	6.50	DRLPRO	06	A	P		P/U BIT & MTR,SCRIBE TOOLS,TIH,CIRC @2200-5500
	6:30 - 7:00	0.50	DRLPRO	03	E	P		TIH TO 8443'
	7:00 - 11:00	4.00	DRLPRO	02	D	P		WASH & REAM F/8443 TO 8725
	11:00 - 11:30	0.50	DRLPRO	07	A	P		DIR DRILL F/ 8725 TO 8913=188,AVG 47 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 1900/2250,TORG 18/12K,SLIDE 0% , ROT 100% - MW 12.2 VIS 42 LCM 8%
	11:30 - 0:00	12.50	DRLPRO	02	D	P		RIG SERVICE
2/18/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DIR DRILL F/ 8913 TO9340 =427 ,AVG34 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 1900/2250,TORG 18/12K,SLIDE 0% , ROT 100% - MW 12.4 VIS 48 LCM 10%
	8:00 - 9:00	1.00	DRLPRO	05	C	P		DIR DRILL F/9340 TO 9640 =300 ,AVG 34 FPH ,WOB 20,RPM 42/,72 STKS 90 ,GPM 442,PSI 2000/2300,TORG 18/12K,SLIDE 0% , MW 12.5+ VIS 52 LCM 10%
	9:00 - 21:00	12.00	DRLPRO	06	E	P		FINAL SURVEY@9581=2.13 DEG 123 AZI IS 17' SOUTH 10'EAST OF CENTER,FLOW CHECK NO FLOW,CIRC BTMS UP F/WIPER TRIP TO SHOE
	21:00 - 22:30	1.50	DRLPRO	05	C	P		PUMP OUT 5 STNDS,STRAIGHT PULL 60K OVER,TIGHT SPOT 8110',4900,CHECK CIRC @ SHOE,TIH GOOD
	22:30 - 0:00	1.50	DRLPRO	06	B	P		CIRC & CONDITION FOR LOGS
2/19/2011	0:00 - 7:30	7.50	DRLPRO	06	B	P		CHECK FLOW,PUMP OUT 3 STNDS,PUMPPILL TOOH F/LOGS
	7:30 - 13:00	5.50	EVALPR	11	D	P		POOH F/LOGS,L/D BIT& MTR,STND BACK DIR TOOLS,PULL WEARRING
	13:00 - 15:00	2.00	EVALPR	11	E	P		SAFETY MEET W/HALLIBURTON,R/U RUN TRIPLE COMBO TO LOGGERS DEPTH 9620'
	15:00 - 0:00	9.00	CSG	12	C	P		SAFETY MEET W/PSI ,R/U RUN 40 MULTI FINGERCALIPER LOG,IN SURFACE CSG,OK
2/20/2011	0:00 - 1:30	1.50	CSG	12	C	P		RUN 227 JT & 2 MARKERS OF 4.5 11.6# I-80 BTC TO 9608',FC @ 9566',TEST FE 15 JTS,CIRC AT 4890,AVG TORQ 5000 TO MIDDLE OF DIAMOND
	1:30 - 2:30	1.00	CSG	05	D	P		FINISH CSG RUN TO 9608',FC 9566'
								CIRC BTMS UP,NO FLARE, .3 CUT

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)				UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
	2:30 - 5:00	2.50	CSG	12	E	P		R/U HALLIBURTON PUMP 40BBLS H2O,LEAD=520SX #12.6 1.93 YLD 0%EXCESS,TAIL=1050SX #14.3 1.26YLD 5%EXCESS,DISPLACE 148 BBLS CLAYFIX,FINALLIFT 2750,BUMPPLUG,FLOATS HELD,5BBLS SPACER TO PIT,2BBL TO TRUCK,EST TOP OF LEAD 796'	
	5:00 - 6:00	1.00	RDMO	14	A	P		SET C-22 CSG SLIPS 94K,NDBOP & CUT-OFF,TRANSFER MUD 700 BBLS F/STORAGE	
	6:00 - 10:00	4.00	RDMO	01	E	P		CLEAN PIT,PREP F/SKID,RIG RELEASE @10:00 AM 2/20/2011 TO NBU 921-25J2CS WELL #3 OF 4	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD		Rig Name No: ENSIGN 139/139, CAPSTAR 310/310
Event: DRILLING	Start Date: 12/7/2010	End Date: 2/20/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	10:00 - 10:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28</p> <p>SPUD DATE/TIME: 1/5/2011 21:30</p> <p>SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,600 Total SURFACE hours: 31.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,537.0 # sx of cement: 575 Cement blend (ppg): 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: 0 Describe cement issues: NA Describe hole issues: NA</p> <p>PRODUCTION: Rig Move/Skid start date/time: 2/12/2011 2:00 Rig Move/Skid finish date/time: 2/12/2011 6:00 Total MOVE hours: 4.0 Prod Rig Spud date/time: 2/12/2011 19:30 Rig Release date/time: 2/20/2011 10:00 Total SPUD to RR hours: 181.5 Planned depth MD 9,629 Planned depth TVD 9,615 Actual MD: 9,640 Actual TVD: 9,626 Open Wells \$: \$821,137 AFE \$: \$773,143 Open wells \$/ft: \$85.18</p> <p>PRODUCTION HOLE: Prod. From depth: 2,605 Prod. To depth: 9,640 Total PROD hours: 106 Log Depth: 9620 Float Collar Top Depth: 9566 Production Casing size: BTC I -80 # 11.6 - 4.5 # of casing joints ran: 229 Casing set MD: 9,608.0 Stage 1 # sx of cement: 520LEAD 1050TAIL Cement density (ppg): 12.6/14.3 Cement yield (ft3/sk): 1.26 1.93 Stage 2 # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Top Out Cmt # sx of cement: Cement density (ppg): Cement yield (ft3/sk): Est. TOC (Lead & Tail) or 2 Stage : LEAD 796' TAIL 4300 Describe cement issues: 0%/5% EXCESS,5BBLs SPACER BACK FINALLIFT 2750 Describe hole issues: MW 12.6,10%LCM,</p> <p>DIRECTIONAL INFO: KOP: 202 @ .59</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ENSIGN 139/139, CAPSTAR 310/310		
Event: DRILLING			Start Date: 12/7/2010				End Date: 2/20/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)				UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
								Max angle:	9.88
								Departure:	204.20
								Max dogleg MD:	1.81

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010				Spud Date: 1/5/2011		
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3		
Event: COMPLETION			Start Date: 4/15/2011				End Date: 4/28/2011		
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation	
4/15/2011	9:00 - 11:00	2.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST FRAC VALVE & CSG T/ 1000 PSI FOR 15 MIN. LOST 0 PSI. PSI T/ 3500 PSI FOR 15 MIN. LOST 0 PSI. PSI TEST T/ 7000 PSI. LOST 80 PSI. 2ND TIME, PSI T/ 7000 PSI, LOST 45 PSI. GOOD TEST. BLEED OFF PSI. MOVE OVER T/ NEXT WELL.	
	11:00 - 13:00	2.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 9446'-48', 4 SPF, 8 HOLES. 9420'-22', 4 SPF, 8 HOLES. 9374'-76', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH, SWI.	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011	End Date: 4/28/2011
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2011	6:30 - 7:00	0.50	COMP	36	B	P		<p>FRAC STG 1)WHP 2070 PSI, BRK 3367 PSI @ 4.7 BPM. ISIP 2784 PSI, FG .73. PUMP 100 BBLS @ 49.2 BPM @ 5942 PSI = 89% HOLES OPEN. ISIP 3022 PSI, FG .76, NPI 238 PSI. MP 6636 PSI, MR 49.3 BPM, AP 5617 PSI, AR 45.4 BPM, PMP 1427 BBLS SW & 44,987 LBS OF 30/50 SND & 5037 LBS OF 20/40 SLC SND. TOTAL PROP 50,024 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 12 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9186' P/U PERF F/ 9132'-36', 4 SPF, 16 HOLES. 9124'-26', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1793 PSI, BRK 3438 PSI @ 4.5 BPM. ISIP 2849 PSI, FG .75. PUMP 100 BBLS @ 44.3 BPM @ 5724 PSI = 81% HOLES OPEN. ISIP 2998 PSI, FG .77, NPI 149 PSI. MP 6642 PSI, MR 49.9 BPM, AP 5964 PSI, AR 49.3 BPM, PMP 661 BBLS SW & 16,534 LBS OF 30/50 SND & 5077 LBS OF 20/40 SLC SND. TOTAL PROP 21,611 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8902' P/U PERF F/ 8850'-52', 4 SPF, 8 HOLES. 8830'-32', 4 SPF, 8 HOLES. 8730'-32', 3 SPF, 6 HOLES. 22 HOLES TOTAL.</p> <p>FRAC STG 3)WHP 1549 PSI, BRK 2875 PSI @ 4.4 BPM. ISIP 2446 PSI, FG .72. PUMP 100 BBLS @ 47.4 BPM @ 5490 PSI = 90% HOLES OPEN. ISIP 2687 PSI, FG .74, NPI 241 PSI. MP 6612 PSI, MR 51.2 BPM, AP 5595 PSI, AR 49.6 BPM, PMP 830 BBLS SW & 26,058 LBS OF 30/50 SND & 4394 LBS OF 20/40 SLC SND. TOTAL PROP 30,452 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUNS, 223 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8309' P/U PERF F/ 8256'-59', 4 SPF, 12 HOLES. 8228'-30', 3 SPF, 6 HOLES. 8195'-97', 3 SPF, 6 HOLES. 24 HOLES TOTAL. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 4)WHP 1318 PSI, BRK 2738 PSI @ 4.5 BPM. ISIP 2322 PSI, FG .72. PUMP 100 BBLS @ 35.3 BPM @ 4719 PSI = 66% HOLES OPEN. ISIP 2719 PSI, FG .77, NPI 377 PSI. MP 6201 PSI, MR 50.3 BPM, AP 5535 PSI, AR 48.6 BPM, PMP 621 BBLS SW & 16,691 LBS OF 30/50 SND & 4864 LBS OF 20/40 SLC SND. TOTAL PROP</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011		
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION			Start Date: 4/15/2011				End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								21,555 LBS. SWI, X-OVER FOR WL.
								PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8145' P/U PERF F/ 8104'-06', 4 SPF, 8 HOLES.
								8090'-91', 4 SPF, 4 HOLES.
								7884'-86', 3 SPF, 6 HOLES.
								7848'-50', 3 SPF, 6 HOLES. 24 HOLES.
								HSM. HIGH PSI LINES & WL SAFETY.
4/19/2011	6:30 - 6:45	0.25	COMP	48		P		

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION	Start Date: 4/15/2011	End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		<p>FRAC STG 5)WHP 1372 PSI, BRK 2985 PSI @ 2.9 BPM. ISIP 2224 PSI, FG .72. PUMP 100 BBLS @ 49 BPM @ 5832 PSI = 74% HOLES OPEN. ISIP 2482 PSI, FG .75, NPI 258 PSI. MP 5979 PSI, MR 53.4 BPM, AP 4858 PSI, AR 51.1 BPM, PMP 1454 BBLS SW & 53,504 LBS OF 30/50 SND & 4919 LBS OF 20/40 SLC SND. TOTAL PROP 58,423 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7796' P/U PERF F/ 7754'-56', 4 SPF, 8 HOLES. 7686'-88', 4 SPF, 8 HOLES. 7618'-20', 4 SPF, 8 HOLES. 24 TOTAL HOLES.</p> <p>FRAC STG 6)WHP 1237 PSI, BRK 2889 PSI @ 4.5 BPM. ISIP 1897 PSI, FG .69. PUMP 100 BBLS @ 41.5 BPM @ 5137 PSI = 63% HOLES OPEN. ISIP 2101 PSI, FG .71, NPI 204 PSI. MP 5994 PSI, MR 53.1 BPM, AP 5407 PSI, AR 51.5 BPM, PMP 667 BBLS SW & 17,823 LBS OF 30/50 SND & 5604 LBS OF 20/40 SLC SND. TOTAL PROP 23,427 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7567' P/U PERF F/ 7514'-17', 12 HOLES. 7461'-64', 12 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 1156 PSI, BRK 2562 PSI @ 4.7 BPM. ISIP 1504 PSI, FG .64. PUMP 100 BBLS @ 51.4 BPM @ 6085 PSI = 65% HOLES OPEN. ISIP 2543 PSI, FG .78, NPI 1039 PSI. MP 6583 PSI, MR 53.5 BPM, AP 5513 PSI, AR 51 BPM, PMP 2605 BBLS SW & 104,968 LBS OF 30/50 SND & 5033 LBS OF 20/40 SLC SND. TOTAL PROP 110,001 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7309' P/U PERF F/ 7256'-59', 4 SPF, 12 HOLES. 7161'-64', 4 SPF, 12 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 597 PSI, BRK 1704 PSI @ 3.7 BPM. ISIP 1400 PSI, FG .63. PUMP 100 BBLS @ BPM @ 0000 PSI = 00% HOLES OPEN. ISIP 2655 PSI, FG .81, NPI 1255 PSI. MP 5854 PSI, MR 53.3 BPM, AP 5081 PSI, AR 51.9 BPM, PMP 1279 BBLS SW & 53,749 LBS OF 30/50 SND & 5394 LBS OF 20/40 SLC SND. TOTAL PROP 59,143 LBS. SWI, X-OVER FOR WL.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD			Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/27/2011	7:00 - 17:30	10.50	COMP	30		P		<p>PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7111'. POOH, SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 374,636 LBS TOTAL CLFL = 10,544 BBLS TOTAL SCALE = 1126 GAL TOTAL BIO = 255 GAL 7AM [DAY 4] JSA--R/U RIG, P/U TBG, DRLG PLUGS, PSI.</p> <p>NDWH, NUBOP YESTERDAY. MIRU, R/U FLOOR & TBG EQUIPMENT. P/U 3-7/8" SEALED BRG BIT, POBS W/ XN , NEW 2-3/8 L-80 TBG & RIH. TAG SAND & 7086'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. P.T SURFACE LINES & BOP TO 3000# FOR 15 MINUTES. LOST 0# IN 15 MINUTES. C/O 25' SAND TO CBP#1. FCP=50#.</p> <p>[DRLG CBP#1] @ 7111'. D/O HALL 8K CBP IN 6 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#2. FCP=150#.</p> <p>[DRLG CBP#2] @ 7289'. D/O HALL 8K CBP IN 4 MIN. 400# INC. RIH & C/O 70' SAND TO CBP#3. FCP=550#.</p> <p>[DRLG CBP#3] @ 7550'. D/O HALL 8K CBP IN 6 MIN. 0# INC. RIH & C/O 65' SAND TO CBP#4. FCP=450#.</p> <p>[DRLG CBP#4] @ 7796'. D/O HALL 8K CBP IN 4 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#5. FCP=500#.</p> <p>[DRLG CBP#5] @ 8145'. D/O HALL 8K CBP IN 4 MIN. 130# INC. RIH & C/O 30' SAND TO CBP#6. FCP=480#.</p> <p>[DRLG CBP#6] @ 8300'. D/O HALL 8K CBP IN 7 MIN. 200# INC. RIH & C/O 30' SAND TO CBP#7. CIRCULATE WELL CLEAN. FCP=600#. PUH W/ EOT @ 8859'.</p> <p>5:30 PM SWI-SDFN. PREP TO D/O 2 PLUGS, C/O TO PBTD & LAND TBG IN AM.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.00ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/28/2011	7:00 - 15:00	8.00	COMP	30		P		<p>7AM [DAY 5] JSA--DRLG PLUGS, PSI, LANDING TBG. R/D RIG.</p> <p>SITP=0#, SICP=2300#. EOT @ 8859'. OPEN WELL TO PIT & BLEED OFF PRESSURE TO 1000# IN 35 MINUTES. ESTABLISH CIRCULATION. CONTINUE DRLG PLUGS. FCP=900#.</p> <p>[DRLG CBP#7] @ 8890'. D/O HALL 8K CBP IN 4 MIN. 0# INC. RIH & C/O 30' SAND TO CBP#8. FCP=900#.</p> <p>[DRLG CBP#8] @ 9188'. PLUG WAS SET @ 9156'-PLUG SLID DOWN HOLE DURING FRAC. D/O HALL 8K CBP IN 4 MIN. RIH & TAG SAND @ 9460'. C/O 80' SAND TO PBTD @ 9540'. DRLG HARD, QUIT DRLG. ORIG PBTD @ 9563'. B.P @ 9448'. 92' RATHOLE. CIRCULATE WELL CLEAN. FCP=700#. R/D SWVL. POOH & L/D 15 JTS ON FLOAT. LAND TBG ON HANGER W/ 288 JTS NEW 2-3/8" L-80 TBG. EOT @ 9116.75', POBS W/ XN @ 9114.55'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DOWN TBG & PUMP OFF THE BIT @ 2100#.</p> <p>OPEN WELL TO FBT ON OPEN CHOKE. UNLOAD TBG VOLUME. FTP=2000#, SICP=2000#.</p> <p>12 PM TURN WELL OVER TO DELSCO FBC & APC MAINT. CREW. SELLING GAS @ 1.6 MCF DAILY RATE. RIG PMPD 230 BBLS. LTR= 8344 BBLS.</p> <p>R/D RIG. MOVE OVER & R/U ON NBU 921-25J2CS. [YELLOW WELL] NDWH, NUBOP. R/U FLOOR & TBG EQUIPMENT.</p> <p>3 PM SDFD</p> <p>314 JTS DELIVERED 288 JTS LANDED 24 JTS RETURNED 2 JUNK - LEFT ON GROUND TO BE HAULED OFF.</p>
	11:30 - 11:30	0.00	PROD	50				WELL TURNED TO SALES @ 1130 HR ON 4/28/11 - 1500 MCFD, 1920 BWPD, CP 2000#, FTP 1500#, CK 20/64"
5/4/2011	7:00 -			50				WELL IP'D ON 5/4/11 - 2795 MCFD, 0 BOPD, 872 BWPD, CP 2223#, FTP 1361#, CK 20/64", LP 126#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25G3CS BLUE	Wellbore No.	OH
Well Name	NBU 921-25G3CS	Common Name	NBU 921-25G3CS
Project	UTAH-UINTAH	Site	NBU 921-25J2 PAD
Vertical Section Azimuth	29.36 (°)	North Reference	True
Origin N/S	0.0 (ft)	Origin E/W	0.0 (ft)
Spud Date	1/5/2011	UWI	NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/25 87/0/0
Active Datum	RKB @4,944.00ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	WEATHERFORD
Started	1/6/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
5.00	0.00	0.00	5.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/6/2011	Tie On	5.00	0.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/6/2011	NORMAL	202.00	0.59	53.39	202.00	0.60	0.81	0.93	0.30	0.30	0.00	53.39
	NORMAL	294.00	1.94	35.42	293.97	2.16	2.10	2.91	1.51	1.47	-19.53	-25.49
	NORMAL	388.00	2.94	16.17	387.89	5.77	3.69	6.84	1.36	1.06	-20.48	-49.22
	NORMAL	483.00	4.25	8.67	482.70	11.59	4.90	12.50	1.46	1.38	-7.89	-23.52
	NORMAL	578.00	5.88	5.92	577.32	19.91	5.93	20.26	1.73	1.72	-2.89	-9.84
	NORMAL	674.00	7.38	7.42	672.68	30.92	7.24	30.49	1.57	1.56	1.56	7.33
	NORMAL	769.00	8.63	9.80	766.75	43.99	9.24	42.87	1.36	1.32	2.51	16.03
	NORMAL	864.00	9.25	16.92	860.60	58.32	12.67	57.04	1.33	0.65	7.49	64.28
	NORMAL	959.00	9.13	12.17	954.38	72.99	16.48	71.70	0.81	-0.13	-5.00	-101.33
	NORMAL	1,053.00	9.56	4.05	1,047.14	88.07	18.61	85.88	1.47	0.46	-8.64	-75.97
	NORMAL	1,148.00	9.88	5.05	1,140.78	104.06	19.88	100.44	0.38	0.34	1.05	28.31
	NORMAL	1,243.00	9.88	5.80	1,234.37	120.28	21.42	115.33	0.14	0.00	0.79	90.37
	NORMAL	1,339.00	9.63	9.67	1,328.98	136.39	23.60	130.44	0.73	-0.26	4.03	112.77
	NORMAL	1,434.00	9.19	11.17	1,422.70	151.67	26.41	145.13	0.53	-0.46	1.58	151.60
	NORMAL	1,528.00	8.06	9.17	1,515.64	165.54	28.91	158.45	1.24	-1.20	-2.13	-166.12
	NORMAL	1,622.00	6.38	11.55	1,608.89	177.16	31.01	169.61	1.81	-1.79	2.53	171.08
	NORMAL	1,718.00	4.75	16.92	1,704.43	186.19	33.23	178.57	1.78	-1.70	5.59	164.94
	NORMAL	1,813.00	3.81	13.92	1,799.17	193.02	35.14	185.45	1.02	-0.99	-3.16	-168.10
	NORMAL	1,907.00	2.88	6.30	1,893.01	198.40	36.15	190.63	1.09	-0.99	-8.11	-158.22
	NORMAL	2,003.00	2.19	333.05	1,988.92	202.43	35.58	193.87	1.66	-0.72	-34.64	-131.12

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/6/2011	NORMAL	2,098.00	1.25	10.80	2,083.88	205.07	34.95	195.86	1.50	-0.99	39.74	147.51
	NORMAL	2,193.00	1.00	38.42	2,178.86	206.73	35.66	197.66	0.62	-0.26	29.07	128.13
1/7/2011	NORMAL	2,288.00	0.94	124.55	2,273.85	206.94	36.82	198.41	1.40	-0.06	90.66	134.96
	NORMAL	2,382.00	0.88	127.67	2,367.84	206.06	38.03	198.23	0.08	-0.06	3.32	142.00
	NORMAL	2,477.00	1.19	186.42	2,462.82	204.64	38.49	197.22	1.11	0.33	61.84	104.47
	NORMAL	2,545.00	1.28	209.90	2,530.81	203.28	38.04	195.81	0.75	0.13	34.53	91.79

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	SDI
Started	2/12/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,545.00	1.28	209.90	2,530.81	203.28	38.04

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/12/2011	Tie On	2,545.00	1.28	209.90	2,530.81	203.28	38.04	195.81	0.00	0.00	0.00	0.00
2/12/2011	NORMAL	2,613.00	1.04	216.75	2,598.79	202.12	37.29	194.44	0.41	-0.35	10.07	153.37
	NORMAL	2,704.00	1.08	217.69	2,689.78	200.78	36.27	192.77	0.05	0.04	1.03	23.97
	NORMAL	2,794.00	1.37	193.12	2,779.76	199.06	35.51	190.90	0.66	0.32	-27.30	-73.75
	NORMAL	2,885.00	0.14	80.42	2,870.75	198.02	35.37	189.92	1.57	-1.35	-123.85	-174.82
	NORMAL	2,976.00	0.39	176.79	2,961.75	197.73	35.50	189.73	0.47	0.27	105.90	115.31
	NORMAL	3,066.00	0.84	192.34	3,051.74	196.78	35.37	188.84	0.53	0.50	17.28	28.24
	NORMAL	3,158.00	0.97	174.33	3,143.73	195.35	35.30	187.56	0.34	0.14	-19.58	-74.62
	NORMAL	3,247.00	0.37	127.86	3,232.73	194.42	35.61	186.90	0.86	-0.67	-52.21	-159.44
	NORMAL	3,338.00	0.67	163.25	3,323.72	193.73	35.99	186.49	0.47	0.33	38.89	65.58
	NORMAL	3,428.00	0.92	176.42	3,413.72	192.51	36.19	185.52	0.34	0.28	14.63	42.87
	NORMAL	3,519.00	0.81	178.73	3,504.70	191.13	36.25	184.35	0.13	-0.12	2.54	163.56
	NORMAL	3,609.00	0.96	118.80	3,594.70	190.14	36.92	183.81	0.99	0.17	-66.59	-111.60
	NORMAL	3,700.00	1.19	146.59	3,685.68	188.98	38.11	183.39	0.62	0.25	30.54	80.51
	NORMAL	3,790.00	1.21	161.92	3,775.66	187.30	38.92	182.32	0.36	0.02	17.03	94.12
	NORMAL	3,881.00	1.33	157.17	3,866.64	185.41	39.63	181.02	0.18	0.13	-5.22	-43.65
	NORMAL	3,971.00	1.74	174.19	3,956.61	183.09	40.17	179.26	0.68	0.46	18.91	56.75
2/13/2011	NORMAL	4,060.00	1.24	98.67	4,045.58	181.60	41.26	178.50	2.10	-0.56	-84.85	-139.97
	NORMAL	4,150.00	1.02	129.08	4,135.57	180.95	42.85	178.71	0.70	-0.24	33.79	124.91
	NORMAL	4,241.00	1.47	160.88	4,226.55	179.33	43.86	177.80	0.89	0.49	34.95	73.50
	NORMAL	4,331.00	1.47	160.88	4,316.52	177.15	44.61	176.27	0.00	0.00	0.00	0.00
	NORMAL	4,422.00	1.34	153.82	4,407.49	175.09	45.46	174.89	0.24	-0.14	-7.76	-130.40
	NORMAL	4,512.00	1.67	166.28	4,497.46	172.87	46.24	173.34	0.51	0.37	13.84	51.10
	NORMAL	4,603.00	1.07	143.30	4,588.43	170.91	47.06	172.02	0.88	-0.66	-25.25	-148.62
	NORMAL	4,694.00	0.34	176.76	4,679.43	169.95	47.59	171.45	0.89	-0.80	36.77	166.59
	NORMAL	4,784.00	0.73	171.04	4,769.42	169.12	47.69	170.78	0.44	0.43	-6.36	-10.66
	NORMAL	4,875.00	0.68	63.83	4,860.42	168.79	48.26	170.77	1.25	-0.05	-117.81	-145.10
	NORMAL	4,965.00	0.62	50.58	4,950.41	169.33	49.12	171.66	0.18	-0.07	-14.72	-118.30
	NORMAL	5,056.00	0.44	52.32	5,041.41	169.86	49.78	172.44	0.20	-0.20	1.91	175.76
	NORMAL	5,146.00	0.33	120.30	5,131.41	169.94	50.27	172.76	0.49	-0.12	75.53	135.95
	NORMAL	5,237.00	0.51	120.91	5,222.40	169.60	50.85	172.74	0.20	0.20	0.67	1.73
	NORMAL	5,327.00	0.74	154.43	5,312.40	168.87	51.44	172.40	0.47	0.26	37.24	75.33
	NORMAL	5,418.00	0.81	26.97	5,403.39	168.91	51.99	172.70	1.53	0.08	-140.07	-152.45

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/13/2011	NORMAL	5,508.00	0.80	20.07	5,493.39	170.07	52.49	173.96	0.11	-0.01	-7.67	-99.33
	NORMAL	5,598.00	0.74	351.13	5,583.38	171.23	52.62	175.03	0.43	-0.07	-32.16	-113.05
	NORMAL	5,689.00	0.47	286.88	5,674.37	171.92	52.17	175.42	0.75	-0.30	-70.60	-141.69
	NORMAL	5,780.00	0.74	257.68	5,765.37	171.91	51.24	174.94	0.44	0.30	-32.09	-64.01
	NORMAL	5,870.00	0.82	256.52	5,855.36	171.63	50.05	174.12	0.09	0.09	-1.29	-11.75
	NORMAL	5,961.00	0.94	225.07	5,946.35	170.95	48.88	172.96	0.54	0.13	-34.56	-92.11
	NORMAL	6,051.00	0.12	261.51	6,036.35	170.42	48.27	172.19	0.94	-0.91	40.49	175.17
	NORMAL	6,142.00	0.26	161.39	6,127.34	170.21	48.24	171.99	0.34	0.15	-110.02	-122.92
	NORMAL	6,232.00	0.78	83.63	6,217.34	170.08	48.91	172.21	0.85	0.58	-86.40	-97.08
	NORMAL	6,322.00	0.80	93.19	6,307.33	170.11	50.15	172.85	0.15	0.02	10.62	86.17
	NORMAL	6,413.00	1.11	115.76	6,398.32	169.70	51.58	173.18	0.53	0.34	24.80	62.16
	NORMAL	6,503.00	0.90	76.28	6,488.31	169.48	53.05	173.72	0.79	-0.23	-43.87	-125.97
2/14/2011	NORMAL	6,594.00	1.37	85.99	6,579.29	169.73	54.83	174.81	0.56	0.52	10.67	27.16
	NORMAL	6,685.00	1.11	54.74	6,670.27	170.32	56.63	176.20	0.78	-0.29	-34.34	-126.17
	NORMAL	6,775.00	0.59	57.77	6,760.26	171.07	57.74	177.40	0.58	-0.58	3.37	176.57
	NORMAL	6,866.00	0.77	53.92	6,851.25	171.68	58.63	178.37	0.20	0.20	-4.23	-16.17
	NORMAL	6,956.00	0.74	63.70	6,941.25	172.29	59.64	179.40	0.15	-0.03	10.87	107.96
	NORMAL	7,047.00	0.63	147.15	7,032.24	172.13	60.44	179.65	1.01	-0.12	91.70	136.87
	NORMAL	7,137.00	1.00	160.76	7,122.23	170.97	60.96	178.90	0.46	0.41	15.12	34.53
	NORMAL	7,228.00	0.52	33.06	7,213.23	170.57	61.45	178.79	1.52	-0.53	-140.33	-162.66
	NORMAL	7,318.00	0.34	357.42	7,303.22	171.18	61.66	179.42	0.35	-0.20	-39.60	-140.89
	NORMAL	7,409.00	0.36	120.78	7,394.22	171.30	61.89	179.64	0.68	0.02	135.56	150.80
	NORMAL	7,499.00	0.51	67.17	7,484.22	171.31	62.51	179.95	0.46	0.17	-59.57	-97.96
	NORMAL	7,590.00	0.91	120.86	7,575.22	171.10	63.50	180.25	0.81	0.44	59.00	87.74
2/15/2011	NORMAL	7,680.00	0.52	84.76	7,665.21	170.77	64.52	180.47	0.64	-0.43	-40.11	-147.97
	NORMAL	7,771.00	0.17	266.65	7,756.21	170.80	64.80	180.63	0.76	-0.38	-195.73	-179.53
	NORMAL	7,862.00	0.27	171.17	7,847.21	170.58	64.69	180.39	0.37	0.11	-104.92	-126.07
	NORMAL	7,952.00	0.45	147.18	7,937.21	170.07	64.92	180.05	0.26	0.20	-26.66	-52.35
	NORMAL	8,043.00	0.84	138.13	8,028.20	169.28	65.56	179.67	0.44	0.43	-9.95	-19.19
	NORMAL	8,133.00	0.57	145.44	8,118.19	168.42	66.25	179.26	0.32	-0.30	8.12	165.21
	NORMAL	8,224.00	0.68	250.70	8,209.19	167.86	66.00	178.66	1.09	0.12	115.67	138.78
	NORMAL	8,314.00	1.04	213.26	8,299.18	167.00	65.05	177.44	0.72	0.40	-41.60	-77.02
	NORMAL	8,405.00	0.71	211.51	8,390.17	165.83	64.30	176.06	0.36	-0.36	-1.92	-176.24
	NORMAL	8,495.00	1.17	197.13	8,480.16	164.48	63.74	174.60	0.57	0.51	-15.98	-34.46
	NORMAL	8,586.00	1.88	200.83	8,571.12	162.20	62.93	172.22	0.79	0.78	4.07	9.75
	NORMAL	8,676.00	1.66	177.55	8,661.08	159.51	62.46	169.65	0.83	-0.24	-25.87	-118.42
2/16/2011	NORMAL	8,767.00	0.76	185.89	8,752.06	157.60	62.46	167.98	1.01	-0.99	9.16	173.08
	NORMAL	8,857.00	1.03	184.71	8,842.05	156.20	62.33	166.69	0.30	0.30	-1.31	-4.50
	NORMAL	8,948.00	1.38	165.70	8,933.03	154.32	62.53	165.16	0.58	0.38	-20.89	-58.56
	NORMAL	9,038.00	1.78	164.32	9,023.00	151.92	63.18	163.39	0.45	0.44	-1.53	-6.12
	NORMAL	9,129.00	1.87	154.13	9,113.95	149.23	64.21	161.54	0.37	0.10	-11.20	-79.63
	NORMAL	9,219.00	2.21	136.17	9,203.89	146.65	66.05	160.20	0.80	0.38	-19.96	-71.17
	NORMAL	9,310.00	2.01	128.17	9,294.83	144.40	68.52	159.45	0.39	-0.22	-8.79	-128.13
	NORMAL	9,400.00	1.88	119.84	9,384.78	142.69	71.04	159.20	0.35	-0.14	-9.26	-118.82
	NORMAL	9,491.00	1.72	114.84	9,475.74	141.38	73.58	159.29	0.25	-0.18	-5.49	-138.01
	NORMAL	9,581.00	2.13	123.34	9,565.68	139.89	76.20	159.28	0.55	0.46	9.44	39.15
	NORMAL	9,640.00	2.13	123.34	9,624.64	138.68	78.03	159.13	0.00	0.00	0.00	0.00

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☒ FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER

b. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE, L.P.

3. ADDRESS OF OPERATOR:
P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217

PHONE NUMBER:
(720) 929-6100

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: NWSE 2606 FSL 2587 FEL S25, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: SWNE 2506 FNL 2526 FEL S25, T9S, R21E

AT TOTAL DEPTH: SWNE 2538 FNL 2509 FEL S25, T9S, R21E

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25G3CS

9. API NUMBER:
4304751275

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE,
MERIDIAN:
NWSE 25 9S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

14. DATE SPUDDED: 12/7/2010 15. DATE T.D. REACHED: 2/18/2011 16. DATE COMPLETED: 4/28/2011
ABANDONED ☐ READY TO PRODUCE ☒

17. ELEVATIONS (DF, RKB, RT, GL):
4930 GL

18. TOTAL DEPTH: MD 9,640
TVD 9,625

19. PLUG BACK T.D.: MD 9,565
TVD 9,550

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

SCBL-BHV-SD/DSN/ACTR

23.
WAS WELL CORED? NO ☒ YES ☐ (Submit analysis)
WAS DST RUN? NO ☒ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☐ YES ☒ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
11"	8 5/8" IJ-55	28#		2,543		575		0	
7 7/8"	4 1/2" I-80	11.6#		9,608		1,570		940	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	9,117							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) WASATCH	7,161	7,259			7,161 7,259	0.36	24	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B) MESAVERDE	7,461	9,448			7,461 9,448	0.36	169	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7161 - 9448	PUMP 9,544 BBLS SLICK H2O & 374,636 LBS SAND

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/28/2011	TEST DATE: 5/4/2011	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 2,795	WATER – BBL: 872	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 1,361	CSG. PRESS. 2,223	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1,413 1,819 2,138 4,728 7,435	7,435 9,637	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Information in #28 was amended. All other information remains as was previously submitted on original completion report.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) ANDREW LYTLETITLE REGULATORY ANALYSTSIGNATURE DATE 9/26/2011

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD			Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.01ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/15/2011	9:00 - 11:00	2.00	COMP	33	C	P		FILL SURFACE CSG. PSI TEST FRAC VALVE & CSG T/ 1000 PSI FOR 15 MIN. LOST 0 PSI. PSI T/ 3500 PSI FOR 15 MIN. LOST 0 PSI. PSI TEST T/ 7000 PSI. LOST 80 PSI. 2ND TIME, PSI T/ 7000 PSI, LOST 45 PSI. GOOD TEST. BLEED OFF PSI. MOVE OVER T/ NEXT WELL.
	11:00 - 13:00	2.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF F/ 9446'-48', 4 SPF, 8 HOLES. 9420'-22', 4 SPF, 8 HOLES. 9374'-76', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH, SWI.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE	Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION	Start Date: 4/15/2011	End Date: 4/28/2011
Active Datum: RKB @4,944.01ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/16/2011	6:30 - 7:00	0.50	COMP	36	B	P		<p>FRAC STG 1)WHP 2070 PSI, BRK 3367 PSI @ 4.7 BPM. ISIP 2784 PSI, FG .73. PUMP 100 BBLS @ 49.2 BPM @ 5942 PSI = 89% HOLES OPEN. ISIP 3022 PSI, FG .76, NPI 238 PSI. MP 6636 PSI, MR 49.3 BPM, AP 5617 PSI, AR 45.4 BPM, PMP 1427 BBLS SW & 44,987 LBS OF 30/50 SND & 5037 LBS OF 20/40 SLC SND. TOTAL PROP 50,024 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 2)PU 4 12 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9186' P/U PERF F/ 9132'-36', 4 SPF, 16 HOLES. 9124'-26', 4 SPF, 8 HOLES. 24 TOTAL HOLES. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 2)WHP 1793 PSI, BRK 3438 PSI @ 4.5 BPM. ISIP 2849 PSI, FG .75. PUMP 100 BBLS @ 44.3 BPM @ 5724 PSI = 81% HOLES OPEN. ISIP 2998 PSI, FG .77, NPI 149 PSI. MP 6642 PSI, MR 49.9 BPM, AP 5964 PSI, AR 49.3 BPM, PMP 661 BBLS SW & 16,534 LBS OF 30/50 SND & 5077 LBS OF 20/40 SLC SND. TOTAL PROP 21,611 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8902' P/U PERF F/ 8850'-52', 4 SPF, 8 HOLES. 8830'-32', 4 SPF, 8 HOLES. 8730'-32', 3 SPF, 6 HOLES. 22 HOLES TOTAL.</p> <p>FRAC STG 3)WHP 1549 PSI, BRK 2875 PSI @ 4.4 BPM. ISIP 2446 PSI, FG .72. PUMP 100 BBLS @ 47.4 BPM @ 5490 PSI = 90% HOLES OPEN. ISIP 2687 PSI, FG .74, NPI 241 PSI. MP 6612 PSI, MR 51.2 BPM, AP 5595 PSI, AR 49.6 BPM, PMP 830 BBLS SW & 26,058 LBS OF 30/50 SND & 4394 LBS OF 20/40 SLC SND. TOTAL PROP 30,452 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUNS, 223 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8309' P/U PERF F/ 8256'-59', 4 SPF, 12 HOLES. 8228'-30', 3 SPF, 6 HOLES. 8195'-97', 3 SPF, 6 HOLES. 24 HOLES TOTAL. POOH, X-OVER FOR FRAC CREW.</p>

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.01ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								FRAC STG 4)WHP 1318 PSI, BRK 2738 PSI @ 4.5 BPM. ISIP 2322 PSI, FG .72. PUMP 100 BBLS @ 35.3 BPM @ 4719 PSI = 66% HOLES OPEN. ISIP 2719 PSI, FG .77, NPI 377 PSI. MP 6201 PSI, MR 50.3 BPM, AP 5535 PSI, AR 48.6 BPM, PMP 621 BBLS SW & 16,691 LBS OF 30/50 SND & 4864 LBS OF 20/40 SLC SND. TOTAL PROP 21,555 LBS. SWI, X-OVER FOR WL. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8145' P/U PERF F/ 8104'-06', 4 SPF, 8 HOLES. 8090'-91', 4 SPF, 4 HOLES. 7884'-86', 3 SPF, 6 HOLES. 7848'-50', 3 SPF, 6 HOLES. 24 HOLES. HSM. HIGH PSI LINES & WL SAFETY.
4/19/2011	6:30 - 6:45	0.25	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.01ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		<p>FRAC STG 5)WHP 1372 PSI, BRK 2985 PSI @ 2.9 BPM. ISIP 2224 PSI, FG .72. PUMP 100 BBLS @ 49 BPM @ 5832 PSI = 74% HOLES OPEN. ISIP 2482 PSI, FG .75, NPI 258 PSI. MP 5979 PSI, MR 53.4 BPM, AP 4858 PSI, AR 51.1 BPM, PMP 1454 BBLS SW & 53,504 LBS OF 30/50 SND & 4919 LBS OF 20/40 SLC SND. TOTAL PROP 58,423 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7796' P/U PERF F/ 7754'-56', 4 SPF, 8 HOLES. 7686'-88', 4 SPF, 8 HOLES. 7618'-20', 4 SPF, 8 HOLES. 24 TOTAL HOLES.</p> <p>FRAC STG 6)WHP 1237 PSI, BRK 2889 PSI @ 4.5 BPM. ISIP 1897 PSI, FG .69. PUMP 100 BBLS @ 41.5 BPM @ 5137 PSI = 63% HOLES OPEN. ISIP 2101 PSI, FG .71, NPI 204 PSI. MP 5994 PSI, MR 53.1 BPM, AP 5407 PSI, AR 51.5 BPM, PMP 667 BBLS SW & 17,823 LBS OF 30/50 SND & 5604 LBS OF 20/40 SLC SND. TOTAL PROP 23,427 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7567' P/U PERF F/ 7514'-17', 12 HOLES. 7461'-64', 12 HOLES. 24 TOTAL HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 1156 PSI, BRK 2562 PSI @ 4.7 BPM. ISIP 1504 PSI, FG .64. PUMP 100 BBLS @ 51.4 BPM @ 6085 PSI = 65% HOLES OPEN. ISIP 2543 PSI, FG .78, NPI 1039 PSI. MP 6583 PSI, MR 53.5 BPM, AP 5513 PSI, AR 51 BPM, PMP 2605 BBLS SW & 104,968 LBS OF 30/50 SND & 5033 LBS OF 20/40 SLC SND. TOTAL PROP 110,001 LBS. SWI, X-OVER FOR WL.</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7309' P/U PERF F/ 7256'-59', 4 SPF, 12 HOLES. 7161'-64', 4 SPF, 12 HOLES. 24 HOLES. POOH, X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 597 PSI, BRK 1704 PSI @ 3.7</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3	
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.01ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/27/2011	7:00 - 17:30	10.50	COMP	30		P		<p>BPM. ISIP 1400 PSI, FG .63. PUMP 100 BBLS @ BPM @ 0000 PSI = 00% HOLES OPEN. ISIP 2655 PSI, FG .81, NPI 1255 PSI. MP 5854 PSI, MR 53.3 BPM, AP 5081 PSI, AR 51.9 BPM, PMP 1279 BBLS SW & 53,749 LBS OF 30/50 SND & 5394 LBS OF 20/40 SLC SND. TOTAL PROP 59,143 LBS, SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7111'. POOH, SWI. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 374,636 LBS TOTAL CLFL = 9,544 BBLS TOTAL SCALE = 1126 GAL TOTAL BIO = 255 GAL</p> <p>7AM [DAY 4] JSA-R/U RIG, P/U TBG, DRLG PLUGS, PSI.</p> <p>NDWH, NUBOP YESTERDAY. MIRU, R/U FLOOR & TBG EQUIPMENT. P/U 3-7/8" SEALED BRG BIT, POBS W/ XN , NEW 2-3/8 L-80 TBG & RIH. TAG SAND & 7086'. R/U SWVL & RIG PUMP. ESTABLISH CIRCULATION. P.T SURFACE LINES & BOP TO 3000# FOR 15 MINUTES. LOST 0# IN 15 MINUTES. C/O 25' SAND TO CBP#1. FCP=50#.</p> <p>[DRLG CBP#1] @ 7111'. D/O HALL 8K CBP IN 6 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#2. FCP=150#.</p> <p>[DRLG CBP#2] @ 7289'. D/O HALL 8K CBP IN 4 MIN. 400# INC. RIH & C/O 70' SAND TO CBP#3. FCP=550#.</p> <p>[DRLG CBP#3] @ 7550'. D/O HALL 8K CBP IN 6 MIN. 0# INC. RIH & C/O 65' SAND TO CBP#4. FCP=450#.</p> <p>[DRLG CBP#4] @ 7796'. D/O HALL 8K CBP IN 4 MIN. 100# INC. RIH & C/O 30' SAND TO CBP#5. FCP=500#.</p> <p>[DRLG CBP#5] @ 8145'. D/O HALL 8K CBP IN 4 MIN. 130# INC. RIH & C/O 30' SAND TO CBP#6. FCP=480#.</p> <p>[DRLG CBP#6] @ 8300'. D/O HALL 8K CBP IN 7 MIN. 200# INC. RIH & C/O 30' SAND TO CBP#7. CIRCULATE WELL CLEAN. FCP=600#. PUH W/ EOT @ 8859'.</p> <p>5:30 PM SWI-SDFN. PREP TO D/O 2 PLUGS, C/O TO PBTD & LAND TBG IN AM.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011	
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD			Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011	
Active Datum: RKB @4,944.01ft (above Mean Sea Level)			UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/28/2011	7:00 - 15:00	8.00	COMP	30		P		<p>7AM [DAY 5] JSA--DRLG PLUGS, PSI, LANDING TBG. R/D RIG.</p> <p>SITP=0#, SICP=2300#. EOT @ 8859'. OPEN WELL TO PIT & BLEED OFF PRESSURE TO 1000# IN 35 MINUTES. ESTABLISH CIRCULATION. CONTINUE DRLG PLUGS. FCP=900#.</p> <p>[DRLG CBP#7] @ 8890'. D/O HALL 8K CBP IN 4 MIN. 0# INC. RIH & C/O 30' SAND TO CBP#8. FCP=900#.</p> <p>[DRLG CBP#8] @ 9188'. PLUG WAS SET @ 9156'-PLUG SLID DOWN HOLE DURING FRAC. D/O HALL 8K CBP IN 4 MIN. RIH & TAG SAND @ 9460'. C/O 80' SAND TO PBTD @ 9540'. DRLG HARD, QUIT DRLG. ORIG PBTD @ 9563'. B.P @ 9448'. 92' RATHOLE. CIRCULATE WELL CLEAN. FCP=700#. R/D SWVL. POOH & L/D 15 JTS ON FLOAT. LAND TBG ON HANGER W/ 288 JTS NEW 2-3/8" L-80 TBG. EOT @ 9116.75', POBS W/ XN @ 9114.55'. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DOWN TBG & PUMP OFF THE BIT @ 2100#. OPEN WELL TO FBT ON OPEN CHOKE. UNLOAD TBG VOLUME. FTP=2000#, SICP=2000#.</p> <p>12 PM TURN WELL OVER TO DELSCO FBC & APC MAINT. CREW. SELLING GAS @ 1.6 MCF DAILY RATE. RIG PMPD 230 BBLS. LTR= 8344 BBLS.</p> <p>R/D RIG. MOVE OVER & R/U ON NBU 921-25J2CS. [YELLOW WELL] NDWH, NUBOP. R/U FLOOR & TBG EQUIPMENT.</p> <p>3 PM SDFD</p> <p>314 JTS DELIVERED 288 JTS LANDED 24 JTS RETURNED 2 JUNK - LEFT ON GROUND TO BE HAULED OFF.</p>
	11:30 - 11:30	0.00	PROD	50				<p>WELL TURNED TO SALES @ 1130 HR ON 4/28/11 - 1500 MCFD, 1920 BWPD, CP 2000#, FTP 1500#, CK 20/64"</p>
4/29/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 3050#, TP 2100#, 20/64" CK, 42 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3134 BBLS LEFT TO RECOVER: 7410</p>
4/30/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2900#, TP 2000#, 20/64" CK, 34 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 4020 BBLS LEFT TO RECOVER: 6524</p>
5/1/2011	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 2775#, TP 1925#, 20/64" CK, 28 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4732 BBLS LEFT TO RECOVER: 5812</p>

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE		Spud Conductor: 12/7/2010		Spud Date: 1/5/2011				
Project: UTAH-UINTAH		Site: NBU 921-25J2 PAD		Rig Name No: ROCKY MOUNTAIN WELL SERVICE 3/3				
Event: COMPLETION		Start Date: 4/15/2011		End Date: 4/28/2011				
Active Datum: RKB @4,944.01ft (above Mean Sea Level)		UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/2/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 2625#, TP 1825#, 20/64" CK, 24 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5338 BBLS LEFT TO RECOVER: 5206
5/4/2011	7:00 -			50				WELL IP'D ON 5/4/11 - 2795 MCFD, 0 BOPD, 872 BWPD, CP 2223#, FTP 1361#, CK 20/64", LP 126#, 24 HRS

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/15/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: Production Enhancement Wo	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator conducted the following workover to enhance production on the subject well. Please see the attached chronological well history for details. Thank you.		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/31/2012	

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25G3CS BLUE				Spud Conductor: 12/7/2010				Spud Date: 1/5/2011						
Project: UTAH-UINTAH					Site: NBU 921-25J2 PAD					Rig Name No: ROYAL WELL SERVICE 2/2				
Event: WELL WORK EXPENSE					Start Date: 6/13/2012					End Date: 6/15/2012				
Active Datum: RKB @4,944.00usft (above Mean Sea Level)					UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0									
Date	Time Start-End		Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation					
6/13/2012	6:45	- 7:00	0.25	MAINT	48		P		HSM, JSA					
	7:00	- 12:00	5.00	MAINT	30	A	P		MIRU, FTP 125PSI, FCP 125PSI, CONTROLL WELL W/ 30 BBLS T-MAC, HAD TO SET NEW RIG ANCHOR, ND WH, NU BOP'S, RU FLOOR & TBG EQUIP					
	12:00	- 13:15	1.25	MAINT	31	I	P		UNLAND TBG, TBG WAS STUCK, WORK TBG UP AND DN UNTIL FREE, TIH TAG @ 9471' W/ 13 JTS					
	13:15	- 19:00	5.75	MAINT	31	I	P		MIRU SCAN TECH, SCAN 288 JTS 2-3/8"L-80 TBG OUT OF HOLE, BARIUM SCALE ON OUTSIDE OF TBG FROM 7,678'- 7,900', FOUND HOLE IN TBG @7,815, BOTTEM 9 JTS WERE FULL OF SAND, 37 RED JTS & 251 YELL JTS, RD SCAN TECH, SDFN					
6/14/2012	6:45	- 7:00	0.25	MAINT	48	I	P		HSM, JSA					
	7:00	- 8:00	1.00	MAINT	49	A	P		WORK ON TONGS					
	8:00	- 11:00	3.00	MAINT	31	I	P		900 SICP, CONTROLL WELL W/ 20 BBLS, PU 3-7/8" MILL, TALLY TBG IN HOLE, TAG FILL @ 7,816'					
	11:00	- 11:25	0.42	MAINT	30	A	P		MIRU PWR SWVL					
	11:25	- 18:00	6.58	MAINT	31	N	P		MIRU WEATHERFORD, ESTB CIRC IN 2.5 HRS, C/O FROM 7,816-7,888', BREAK THRU, HANG BACK PWR SWVL & RETRIEVE STRING FLOAT, TIH TAG UP @ 8,080', PU PWR SWVL, ESTB CIRC IN 45 MINS, C/O FROM 8,080'- 8,095', BREAK THRU, CIRC WELL CLEAN, HANG BACK PWR SWVL, TIH TAG FILL @ 9,496' 48' PAST BTM PERF, POOH LD 13 JTS ON TRAILER, STAND BACK 15 STANDS IN DERRICK, SDFN W/ EOT @ 8101'					
6/15/2012	6:45	- 7:00	0.25	MAINT	48		P		HSM, JSA					
	7:00	- 10:30	3.50	MAINT	31	I	P		RD PWR SWVL, TOO H W/ 2-3/8 TBG, LD 3-7/8" MILL					
	10:30	- 12:30	2.00	MAINT	31	I	P		PU NOTCHED 1.87" XN AND RIH W/ 287-JTS 2-3/8" L-80 TBG, PU 4" 10K HANGER AND LAND W/ EOT AT 9,091.27'					
	12:30	- 14:00	1.50	MAINT	31		P		RU SANDLINE, RUN 1.91" BROACH TO XN, GOOD					
	14:00	- 16:00	2.00	MAINT	33	B	P		DROP STANDING VALVE, PRESS TEST TBG TO 500PSI, LOST 0 PSI, RIH W/ JDC ON SANDLINE RETRIVE STANDING VALVE, RD SANDLINE					
	16:00	- 17:00	1.00	MAINT	30	C	P		RD FLOOR & TBG EQUIP, ND BOP'S, NU WH, SDFWE					
								KB		14.00				
								4" 10K HANGER		.89				
								287-JTS 2-3/8" L-80		9,075.39				
								NOTCHED 1.87" XN		1.05				
								EOT		9,091.27				
								PMP 330 BBLS		LTR 100 BBLS				

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
5. FIELD and POOL or WILDCAT: NATURAL BUTTES		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/19/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 The operator requests authorization to recomplete the subject well in the WASATCH formation. Please see the attached procedure.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: June 20, 2013

By: *Derek Duff*

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 6/19/2013	



Greater Natural Buttes Unit

**NBU 921-25G3CS
RE-COMPLETIONS PROCEDURE
NBU 921-25J2 PAD
FIELD ID: BLUE WELL**

**DATE: 5/13/13
AFE#:
API#: 4304751275
USER ID: VYI537 (Frac Invoices Only)**

**COMPLETIONS ENGINEER: Paul Ryza , Denver, CO
(720) 929-6915 (Office)
(936) 499-6895 (Cell)**

REMEMBER SAFETY FIRST!

Name: **NBU 921-25G3CS**
Location: **SW SW SW NE Sec 25 T9S R21E**
LAT: 40.006890 **LONG:** -109.499891 **COORDINATE:** NAD83 (*Surface Location*)
Uintah County, UT
Date: **5/13/13**

ELEVATIONS: 4930' GL 4944' KB *Frac Registry TVD: 9625'*

TOTAL DEPTH: 9640' **PBTD:** 9563'
SURFACE CASING: 8 5/8", 28# J-55 LTC @ 2543'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BTC @ 9608'
 Marker Joint **4670-4691' & 7386-7406'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 1/2" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1413' Green River Top
 1757' Bird's Nest Top
 2234' Mahogany Top
 4724' Wasatch Top
 7431' Mesaverde Top
 *Based on latest geological interpretation

BOTTOMS:

7431' Wasatch Bottom
 9640' Mesaverde Bottom (TD)

T.O.C. @ 920'

**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
 - All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.
 - CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.
- A minimum of **8** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Casedhole Solution's CBL log dated **3/10/11**.
- **4** fracturing stages required for coverage.
- Hydraulic isolation estimated at **1193'** based upon Casedhole Solution's CBL dated 3/10/11.
- Procedure calls for **5** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.

- Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.
- **This is a NO Clay stabilizer pilot *** Please Do NOT pump Clay Stabilizer *****
- **This is a Reduced Surfactant pilot *** Please pump Surfactant at 0.75 gpt*****
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200 psi.**
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densimeters. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 1- OVERFLUSH BY 5 BBLS**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

<u>PERFORATIONS</u>						
<u>Formation</u>	<u>Zone</u>	<u>Top</u>	<u>Btm</u>	<u>spf</u>	<u>Shots</u>	<u>Date</u>
WASATCH		7181	7184	4	12	04/18/2011
WASATCH		7258	7259	4	12	04/18/2011
MESAVERDE		7481	7484	4	12	04/18/2011
MESAVERDE		7514	7517	4	12	04/18/2011
MESAVERDE		7618	7620	4	8	04/18/2011
MESAVERDE		7688	7688	4	8	04/18/2011
MESAVERDE		7754	7756	4	8	04/18/2011
MESAVERDE		7848	7850	3	6	04/18/2011
MESAVERDE		7884	7886	3	6	04/18/2011
MESAVERDE		8090	8091	4	4	04/18/2011
MESAVERDE		8104	8106	4	8	04/18/2011
MESAVERDE		8195	8197	3	6	04/18/2011
MESAVERDE		8228	8230	3	6	04/18/2011
MESAVERDE		8258	8259	4	12	04/18/2011
MESAVERDE		8730	8732	3	6	04/18/2011
MESAVERDE		8830	8832	4	8	04/18/2011
MESAVERDE		8850	8852	4	8	04/18/2011
MESAVERDE		9124	9126	4	8	04/18/2011
MESAVERDE		9132	9136	4	16	04/18/2011
MESAVERDE		9374	9376	4	8	04/18/2011
MESAVERDE		9420	9422	4	8	04/18/2011
MESAVERDE		9446	9448	4	8	04/18/2011

Relevant History:

- 4/18/11: Originally completed in Mesaverde and Wasatch formations (8 stages) with ~ 400,812 gallons of Slickwater, 334,314 lbs of 30/50 Ottawa Sand sand and 40,322 lbs of 20/40 Resin coated sand.
- 10/13/11: Pulled tubing, light scale in tbg 7613-7643', heavy Barium scale on tbg 7739-7769', XN plugged with scale. Landed tbg @ 9116'.
- 6/13/12: Pulled tubing, Barium scale on tbg 7679-7900', hole in tbg at 7815', bottom 9 joints full of sand. Tagged fill at 7816', cleaned out to 9496', landed tbg at 9091'.
- 1/9/13: Last slickline report:
Ran jdc set down @ 9116 came out with nothing ran g1 tool set down @ 9116 came out with a venturi plunger ran jdc set down @ 9116 jarred on spring for while came out with a stainless steal spring ran td set down @ 9518 came out ran scratcher out the tubing came out ran 1.9 boach set down @ 9116 came out tubing was clean there was a trace of barium scale on the spring and plunger change cups on the spring drop and chase stainless steal spring and venturi plunger to btm came out rigged down.
- 5/13/13: Tubing Currently Landed @ ~9091'

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
4/30/2013	304.23	27.02	0.06	89.02	
3/31/2013	294.42	25.35	0.00	86.12	
2/28/2013	298.29	24.00	0.00	80.46	
1/31/2013	309.23	29.87	0.00	96.60	
12/31/2012	328.35	29.77	0.00	90.68	
11/30/2012	350.53	46.90	0.00	133.80	
10/31/2012	381.10	48.10	0.00	126.21	0.00
9/30/2012	404.97	48.10	0.00	118.78	0.00
8/31/2012	444.77	48.10	0.00	108.14	
7/31/2012	475.48	46.19	0.42	98.03	
6/30/2012	337.10	37.03	2.63	117.67	
5/31/2012	376.65	40.71	3.52	117.42	
4/30/2012	436.93	40.57	3.23	100.24	
3/31/2012	458.58	40.55	3.32	95.67	
2/29/2012	528.83	41.31	2.66	83.14	
1/31/2012	583.23	118.81	16.19	231.47	
12/31/2011	611.48	117.32	8.19	205.26	
11/30/2011	379.60	92.47	7.27	262.73	
10/31/2011	900.45	78.00	4.97	92.14	7.00
9/30/2011	321.10	30.10	1.60	98.72	0.00
8/31/2011	900.87	71.61	4.26	84.22	0.00
7/31/2011	1137.45	117.13	15.42	116.53	
6/30/2011	1470.13	125.43	19.93	98.88	0.00
5/31/2011	2184.77	125.45	20.29	66.71	
4/30/2011	169.80	104.47	0.00	615.23	

PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.
2. The tubing is below the proposed CBP depth. TOO H with 2-3/8", 4.7#, L-80 tubing. Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7160' (17' below proposed CBP). Otherwise P/U a mill and C/O to 7160' (17' below proposed CBP).
4. Set 8000 psi CBP at ~ 7143'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.
5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

6. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6956	6957	3	3
WASATCH	6967	6968	3	3
WASATCH	6986	6987	3	3
WASATCH	7035	7036	3	3
WASATCH	7065	7066	3	3
WASATCH	7074	7075	3	3
WASATCH	7083	7084	3	3
WASATCH	7109	7110	3	3

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6956' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLs

8. Set 8000 psi CBP at ~6942'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6771	6772	4	4
WASATCH	6847	6848	4	4
WASATCH	6868	6869	4	4
WASATCH	6905	6906	4	4
WASATCH	6921	6922	4	4
WASATCH	6929	6930	4	4

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6771' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

10. Set 8000 psi CBP at ~6603'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6508	6509	4	4
WASATCH	6525	6526	4	4
WASATCH	6540	6541	4	4
WASATCH	6547	6548	4	4
WASATCH	6557	6558	4	4
WASATCH	6572	6573	4	4

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6508' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

12. Set 8000 psi CBP at ~6277'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6179	6180	4	4
WASATCH	6225	6227	4	8
WASATCH	6245	6247	4	8

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6179' and flush only with recycled water.

14. Set 8000 psi CBP at ~6113'.

15. ND Frac Valves, NU and Test BOPs.

16. TIH with 3 7/8" bit, pump off sub, SN and tubing.

17. Drill 4 plugs and clean out to a depth of 7130' (~ 20' below bottom perfs).

18. Shear off bit and land tubing at 6926'. Flow back completion load. RDMO.

19. MIRU, POOH tbg and POBS. TIH with POBS.

20. Drill last plug @ 7143' clean out to PBTD at 9563'. Shear off bit and land tubing at ±9091'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 calendar days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**

21. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

22. **Leave surface casing valve open.** Monitor and report any flow from surface casing. RDMO

Completion Engineer

Paul Ryza: 936/499-6895, 720/929-6915

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

Acid Pickling and H2S Procedures (If Required)

****PROCEDURE FOR PUMPING ACID DOWN TBG**

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

**** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID**

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

Name NBU 921-25G3CS
 Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	WASATCH	6956	6957	3	3		6955	to	7113.5
	WASATCH	6967	6968	3	3				
	WASATCH	6986	6987	3	3				
	WASATCH	7035	7036	3	3				
	WASATCH	7065	7066	3	3				
	WASATCH	7074	7075	3	3				
	WASATCH	7083	7084	3	3				
	WASATCH	7109	7110	3	3				
	# of Perfs/stage				24		CBP DEPTH	6,942	
2	WASATCH	6771	6772	4	4		6769	to	6932
	WASATCH	6847	6848	4	4				
	WASATCH	6868	6869	4	4				
	WASATCH	6905	6906	4	4				
	WASATCH	6921	6922	4	4				
	WASATCH	6929	6930	4	4				
	# of Perfs/stage				24		CBP DEPTH	6,603	
3	WASATCH	6508	6509	4	4		6507	to	6576
	WASATCH	6525	6526	4	4				
	WASATCH	6540	6541	4	4				
	WASATCH	6547	6548	4	4				
	WASATCH	6557	6558	4	4				
	WASATCH	6572	6573	4	4				
	# of Perfs/stage				24		CBP DEPTH	6,277	
4	WASATCH	6179	6180	4	4		6178	to	6249
	WASATCH	6225	6227	4	8				
	WASATCH	6245	6247	4	8				
	# of Perfs/stage				20		CBP DEPTH	6,113	
	Totals				92		Total Pay		118.5

Fracturing Schedules

Name NBU 921-25G3CS

Slickwater Frac

Copy to new book

Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTS ?	N
Days on Pad?	2
Wells on Pad?	4

Swabbing Days	3
Production Log	0
DFIT	0
GR only	Y
Low Scale	Y
Clay Stab.	N

Enter Number of swabbing days here for re completes

Enter 1 if running a Production Log

Enter Number of DFITs

Enter Y if only Gamma Ray log was run

Inter Y if a LOW concentration of Scale Inhibitor will be pumped

inter N if there will be NO Clay stabilizer

[illegible]

NBU 921-25G3CS Directional Survey												
MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0	0	0.0	0.0	0.0	0.0		4965	4950	49.7	169.8	0.6	50.6
5	5	0.0	0.0	0.0	0.0		5056	5041	50.3	170.3	0.4	52.3
202	202	0.8	0.6	0.6	53.4		5146	5131	50.8	170.4	0.3	120.3
294	294	2.1	2.2	1.9	35.4		5237	5222	51.4	170.0	0.5	120.9
388	388	3.7	5.8	2.9	16.2		5327	5312	52.0	169.3	0.7	154.4
483	483	4.9	11.6	4.3	8.7		5418	5403	52.5	169.3	0.8	27.0
578	577	5.9	19.9	5.9	5.9		5508	5493	53.0	170.5	0.8	20.1
674	673	7.2	30.9	7.4	7.4		5598	5583	53.2	171.7	0.7	351.1
769	767	9.2	44.0	8.6	9.8		5689	5674	52.7	172.4	0.5	286.9
864	861	12.7	58.3	9.3	16.9		5780	5765	51.8	172.3	0.7	257.7
959	954	16.5	73.0	9.1	12.2		5870	5855	50.6	172.1	0.8	256.5
1053	1047	18.6	88.1	9.6	4.1		5961	5946	49.4	171.4	0.9	225.1
1148	1141	19.9	104.1	9.9	5.1		6051	6036	48.8	170.8	0.1	261.5
1243	1234	21.4	120.3	9.9	5.8		6142	6127	48.8	170.6	0.3	161.4
1339	1329	23.6	136.4	9.6	9.7		6232	6217	49.5	170.5	0.8	83.6
1434	1423	26.4	151.7	9.2	11.2		6322	6307	50.7	170.5	0.8	93.2
1528	1516	28.9	165.5	8.1	9.2		6413	6398	52.1	170.1	1.1	115.8
1622	1609	31.0	177.2	6.4	11.6		6503	6488	53.6	169.9	0.9	76.3
1718	1704	33.2	186.2	4.8	16.9		6594	6579	55.4	170.2	1.4	86.0
1813	1799	35.1	193.0	3.8	13.9		6685	6670	57.2	170.7	1.1	54.7
1907	1893	36.2	198.4	2.9	6.3		6775	6760	58.3	171.5	0.6	57.8
2003	1989	35.6	202.4	2.2	333.1		6866	6851	59.2	172.1	0.8	53.9
2098	2084	35.0	205.1	1.3	10.8		6956	6941	60.2	172.7	0.7	63.7
2193	2179	35.7	206.7	1.0	38.4		7047	7032	61.0	172.6	0.6	147.2
2288	2274	36.8	206.9	0.9	124.6		7137	7122	61.5	171.4	1.0	160.8
2382	2368	38.0	206.1	0.9	127.7		7228	7213	62.0	171.0	0.5	33.1
2477	2463	38.5	204.6	1.2	186.4		7318	7303	62.2	171.6	0.3	357.4
2545	2531	38.0	203.3	1.3	209.9		7409	7394	62.4	171.7	0.4	120.8
2613	2599	37.3	202.1	1.0	216.8		7499	7484	63.1	171.7	0.5	67.2
2704	2690	36.3	200.8	1.1	217.7		7590	7575	64.0	171.5	0.9	120.9
2794	2780	35.5	199.1	1.4	193.1		7680	7665	65.1	171.2	0.5	84.8
2885	2871	35.4	198.0	0.1	80.4		7771	7756	65.3	171.2	0.2	266.7
2976	2962	35.5	197.7	0.4	176.8		7862	7847	65.2	171.0	0.3	171.2
3066	3052	35.4	196.8	0.8	192.3		7952	7937	65.5	170.5	0.5	147.2
3158	3144	35.3	195.4	1.0	174.3		8043	8028	66.1	169.7	0.8	138.1
3247	3233	35.6	194.4	0.4	127.9		8133	8118	66.8	168.8	0.6	145.4
3338	3324	36.0	193.7	0.7	163.3		8224	8209	66.5	168.3	0.7	250.7
3428	3414	36.2	192.5	0.9	176.4		8314	8299	65.6	167.4	1.0	213.3
3519	3505	36.3	191.1	0.8	178.7		8405	8390	64.8	166.3	0.7	211.5
3609	3595	36.9	190.1	1.0	118.8		8495	8480	64.3	164.9	1.2	197.1
3700	3686	38.1	189.0	1.2	146.6		8586	8571	63.5	162.6	1.9	200.8
3790	3776	38.9	187.3	1.2	161.9		8676	8661	63.0	159.9	1.7	177.6
3881	3867	39.6	185.4	1.3	157.2		8767	8752	63.0	158.0	0.8	185.9
3971	3957	40.2	183.1	1.7	174.2		8857	8842	62.9	156.6	1.0	184.7
4060	4046	41.3	181.6	1.2	98.7		8948	8933	63.1	154.8	1.4	165.7
4150	4136	42.9	181.0	1.0	129.1		9038	9023	63.7	152.4	1.8	164.3
4241	4227	44.1	179.6	1.4	143.5		9129	9114	64.8	149.7	1.9	154.1
4331	4317	45.2	177.6	1.5	160.9		9219	9204	66.6	147.1	2.2	136.2
4422	4407	46.0	175.5	1.3	153.8		9310	9295	69.1	144.8	2.0	128.2
4512	4497	46.8	173.3	1.7	166.3		9400	9385	71.6	143.1	1.9	119.8
4603	4588	47.6	171.3	1.1	143.3		9491	9476	74.1	141.8	1.7	114.8
4694	4679	48.1	170.4	0.3	176.8		9581	9566	76.7	140.3	2.1	123.3
4784	4769	48.2	169.6	0.7	171.0		9637	9622	78.5	139.2	2.1	123.3
4875	4860	48.8	169.2	0.7	63.8							

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 139
Submitted By SID ARMSTRONG Phone Number 435- 828-0984
Well Name/Number NBU-921-25G3CS
Qtr/Qtr NW-SE Section 25 Township 9S Range 21E
Lease Serial Number UO 1189 ST
API Number 43047512750000

Casing – Time casing run starts, not cementing times.

- ☐ Production Casing
☐ Other

Date/Time ____ AM ☐ PM ☐

RECEIVED
FEB 14 2011
DIV. OF OIL, GAS & MINING

BOPE

- ☒ Initial BOPE test at surface casing point
☐ Other

Date/Time 2/12/2011 06:00 AM ☒ PM ☐

Rig Move

Location To: SKID RIG TO NBU 921-25G3AS

Date/Time 2/12/2011 03:00 AM ☒ PM ☐

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: NBU 921-25G3CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2606 FSL 2587 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 25 Township: 09.0S Range: 21.0E Meridian: S		9. API NUMBER: 43047512750000
PHONE NUMBER: 720 929-6514		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/11/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 10/11/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 November 12, 2013

NAME (PLEASE PRINT) Kay E. Kelly	PHONE NUMBER 720 929 6582	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/8/2013	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST			
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input checked="" type="checkbox"/> OTHER RECOMPLETION						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE, L.P.						7. UNIT or CA AGREEMENT NAME UTU63047A			
3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217						8. WELL NAME and NUMBER: NBU 921-25G3CS			
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: NWSE 2606 FSL 2587 FEL S25,T9S,R21E AT TOP PRODUCING INTERVAL REPORTED BELOW: SWNE 2507 FNL 2539 FEL S25,T9S,R21E AT TOTAL DEPTH: SWNE 2538 FNL 2509 FEL S25,T9S,R21E						9. API NUMBER: 4304751275			
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWSE 25 9S 21E S			
12. COUNTY UINTAH						13. STATE UTAH			
14. DATE SPULDED: 12/7/2010		15. DATE T.D. REACHED: 2/18/2011		16. DATE COMPLETED: 10/11/2013		17. ELEVATIONS (DF, RKB, RT, GL): 4944 RKB			
18. TOTAL DEPTH: MD 9,640 TVD 9,625		19. PLUG BACK T.D.: MD 9,565 TVD 9,550		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) SCBL-BHV-SD/DSN/ACTR						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)			
24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7		40		28			
11"	8 5/8" J-55	28#		2,543		575		0	
7 7/8"	4 1/2" I-80	11.6#		9,608		1,570		920	
25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 3/8"	8,720								
26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) WASATCH	6,179	7,110			6,179 7,110	0.36		Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.									
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL								
6179-7110	PUMP 3,247 BBLS SLICK H2O & 87,706 LBS 30/50 MESH SAND								
	4 STAGES								
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:	
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input checked="" type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> OTHER: _____								PROD	

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/11/2013		TEST DATE: 10/19/2013		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 1	GAS – MCF: 601	WATER – BBL: 0	PROD. METHOD: FLOWING
CHOKE SIZE: 36/64	TBG. PRESS. 107	CSG. PRESS. 540	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 1	GAS – MCF: 601	WATER – BBL: 0	INTERVAL STATUS: PROD	

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,413
				BIRD'S NEST	1,757
				MAHOGANY	2,234
				WASATCH	4,724
				MESAVERDE	7,431

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 6179-7110 ; existing perforations: Wasatch 7161-7259 and Mesaverde 7461-9448 . The Iso plug separating new perforations from old perforations was set at 7143 and drilled out on 10/8/13. The well is fully commingled.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) TEENA PAULO

TITLE STAFF REGULATORY SPECIALIST

SIGNATURE

DATE

11-12-2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

US ROCKIES REGION									
Operation Summary Report									
Well: NBU 921-25G3CS BLUE			Spud Conductor: 12/7/2010			Spud Date: 1/5/2011			
Project: UTAH-UINTAH			Site: NBU 921-25J2 PAD				Rig Name No: GWS 1/1		
Event: RECOMPL/RESEREVEADD			Start Date: 7/30/2013				End Date: 10/8/2013		
Active Datum: RKB @4,944.00usft (above Mean Sea Level)				UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation	
7/31/2013	9:30 - 18:00	8.50	FRAC	31	I	P		FWP = 100 PSI. BLOW WELL DOWN T/ FBT. RU RIG. PUMP 20 BBLS DOWN TBG & CSG. ND WH. UNLAND TBG. TBG WAS NOT STUCK. RELAND TBG. NU BOP. RU FLOOR & TBG EQUIP. UNLAND TBG. LD 4 1/16 TBG HNGR. (PUT TBG HNGR IN SEPRATOR SHED) MIRU SCAN TECH. POOH SCAN & LD ALL TBG. (SENT ALL TBG T/ SAMUELS YARD) FOUND = 207 YELLOW BAND 28 BLUE BAND 53 RED BAND. (49 JTS F/ 2600' T/ 4312' MORE THAN 30% WALL LOSS) EXTERNAL PITTING F/ JT 79 @ 2505' T/ JT 158 @ 5010'. LIGHT INTERNAL SCALE F/ JT 145 @ 4598' T/ JT 263 @ 8339'. LIGHT EXTERNAL SCALE F/ JT 244 @ 7737' T/ JT 280 @ 8878'. LD XN-NIPPLE. SWFN. HSM. PINTCH POINT.	
8/1/2013	6:45 - 7:00	0.25	FRAC	48		P		FWP = 100 PSI. BLOW WELL DOWN T/ FBT. MIRU CUTTERS WL. PU 4 1/2 10K HAL CBP. RIH SET CBP @ 7143'. POOH. RDMO CUTTERS WL. FILL CSG. SWI.	
	7:00 - 9:30	2.50	FRAC	34	I	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 6200 PSI. HELD FOR 15 MIN LOST 40 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 1200 PSI HELD FOR 5 MIN LOST -0 PSI,BLED PSI OFF, REINSTALLED POP OFF SWFN 40 # PRESSURE ON SURFACE CASING FILLED SURFACE WITH 3 BBL H2O	
9/10/2013	7:00 - 9:00	2.00	SUBSPR	52	B	P		HSM	
9/12/2013	6:00 - 6:15	0.25		48		P		MIRU CASED HOLE SOLUTION PERFORATE AS PER DESIGN	
	19:38 - 9:00			37	C	P		HSM-JSA	
9/16/2013	7:00 - 7:15	0.25	FRAC	48		P			

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE	Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 7/30/2013	End Date: 10/8/2013
Active Datum: RKB @4,944.00usft (above Mean Sea Level)	UWI: NW/SE/O/9/S/21/E/25/O/0/26/PM/S/2606/E/O/2587/O/O	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	FRAC	36	H	P		FRAC STG #1)WHP 206 PSI, BRK 3067 PSI @ 4 BPM. ISIP 2210 PSI, FG. 0.75 ISIP 2256 PSI, FG. 0.76, NPI 46 PSI, X/O TO WL. SET CBP & PERF STG #2 AS DESIGNED, X/O TO FRAC. FRAC STG #2)WHP 1140 PSI, BRK 4012 PSI @ 5.2 BPM. ISIP 2175 PSI, FG. 0.76 ISIP 2180 PSI, FG. 0.76, NPI 5 PSI, X/O TO WL. SET CBP & PERF STG #3 AS DESIGNED, SWI, SDFN. HSM,
9/17/2013	6:15 - 6:30	0.25		48		P		
	6:30 - 10:00	3.50		36	H	P		FRAC STG #3] WHP=1261#, BRK DN PERFS=4426#, @=4.9 BPM, INTIAL ISIP=2064#, FG=.75, FINAL ISIP=1701#, FG=.70, SET PLUG AND PERFORATE STG #4 FRAC STG #4] WHP=1156#, BRK DN PERFS=1700#, @=3.5 BPM, INTIAL ISIP=1246#, FG=.64, FINAL ISIP=1275#, FG=.64, SET KILL PLUG TOTAL WATER =3247 TOTAL SAND= 87,706
9/23/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. OVER HEAD OBJECTS
	7:00 - 9:00	2.00	DRLOUT	30	A	P		RU RIG. OPEN WELL 0 PSI. NDWH, NUBOP. RU RIG FLOOR & TBG EQUIP.
	9:00 - 16:00	7.00	DRLOUT	31	I	P		PREP & TALLY USED 2 3/8 L-80 TBG F/ SAMUELS. PU 3 7/8 BIT, POBS W/ SLIDING SLEEVE & 1.875 XN-NIPPLE. RIH W/ 194 JTS. TAG SAND @ 6100'. RU DRL EQUIP. FILL CSG. PSI TEST BOP T/ 3000 PSI. GOOD TEST. BLEED OFF PSI. SWFN. BEG DRL OUT IN THE :AM.
9/24/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. HIGH PSI LINES. DONT BRK CONNECTIONS UNTIL FU IS BLED OFF.
	7:00 - 8:00	1.00	DRLOUT	44	C	P		MIRU FU. ATTM T/ BRK CIRC. FOAM UNIT FRONT MOTOR WOULD NOT RUN RIGHT.
	8:00 - 10:00	2.00	DRLOUT	46	E	Z		ATTM T/ REPAIR FU ON LOCATION. COULD NOT REPAIR FOAM UNIT. CALL FOR WEATHERFORD FU.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25G3CS BLUE	Spud Conductor: 12/7/2010	Spud Date: 1/5/2011
Project: UTAH-UINTAH	Site: NBU 921-25J2 PAD	Rig Name No: GWS 1/1
Event: RECOMPL/RESEREVEADD	Start Date: 7/30/2013	End Date: 10/8/2013
Active Datum: RKB @4,944.00usft (above Mean Sea Level)	UWI: NW/SE/0/9/S/21/E/25/0/0/26/PM/S/2606/E/0/2587/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	10:00 - 18:00	8.00	DRLOUT	44	C	P		<p>RIG PUMP T/ TBG. BRK CONV CIRC. BEG DRL OUT. 1st CBP) TAG SAND @ 6093' = 20' SAND. DRL OUT CBP @ 6113' IN 5 MIN. WELL WENT ON A VACCUM. CONT RIH.</p> <p>2nd CBP) TAG SAND @ 6247' = 30' SAND. DRL OUT CBP @ 6277' IN 5 MIN. WELL WENT ON VACCUM. CONT RIH.</p> <p>3rd CBP) TAG SAND @ 6573' = 30' SAND. DRL OUT CBP @ 6603' IN 5 MIN. 50 PSI INCR. CONT RIH.</p> <p>4th CBP) TAG SAND @ 6914' = 30' SAND. DRL OUT CBP @ 6944' IN 5 MIN. 50 PSI INCR. CONT RIH. TAG SAND @ 7084' = 60' SAND ON ISO PLUG. CO T/ ISO PLUG @ 7144'.</p> <p>MIRU WEATHERFORD FOAM UNIT. UNLOAD HOLE. 1 hr 30 min.</p> <p>PUMP 15 BBLS T/ KILL TBG. RD DRL EQUIP. POOH. LD 16 JTS.</p> <p>PU 4 1/16 TBG HNGR. LAND TBG W/</p> <p>KB =====></p> <p>14.00</p> <p>HNGR =====></p> <p>.83</p> <p>210 JTS L-80 TBG =====></p> <p>6637.88</p> <p>1.875 XN-NIPPLE & PUMP OPEN BIT SUB =====></p> <p>3.10</p> <p>EOT @ 6655.81</p> <p>ND BOP. NU WH. DROP BALL. PUMP 5 BBLS T-MAC W/ RIG PUMP. PUMP BIT OPEN W/ FU.</p> <p>1600 PSI BIT SUB OPENED.</p> <p>PURGE WELL T/ FBT.</p> <p>SWFNF.</p>
10/3/2013	14:00 - 14:15	0.25	DRLOUT	48		P		HSM. RIGGING UP & DOWN.
	14:15 - 15:30	1.25	DRLOUT	30	A	P		RU RIG.
	15:30 - 18:00	2.50	DRLOUT	31	I	P		<p>SICP = 900 PSI. SITP 150 PSI.</p> <p>BLOW CSG & TBG DOWN T/ FBT.</p> <p>RIG PUMP T/ TBG. PUMP 20 BBLS. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP.</p> <p>UNLAND TBG. LD 4 1/16 WEATHERFORD TBG HNGR.</p> <p>POOH W/ 152 JTS L-80 TBG. SWFNF.</p>
10/4/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. SLIPS, TRIPS & FALLS
	7:00 - 10:30	3.50	DRLOUT	31	I	P		<p>FLOWBACK CREW OPENED WELL @ 1:AM. BLOW WELL DOWN T/ FBT.</p> <p>PUMP 20 BBLS T/ CONTROL WELL.</p> <p>CONT POOH W/ 48 JTS. LD PUMP OPEN BIT SUB & BIT. RE-USE XN.</p> <p>PU 3 7/8 MILL & POBS. RIH W/ 226 JTS. TAG FILL @ 7123'.</p>
	10:30 - 12:30	2.00	DRLOUT	44	C	P		<p>RU DRL EQUIP. BRK CONV CIRC W/ FU. FOAM UNIT POPPED OFF.</p> <p>WORK TBG. BRK CIRC W/ FOAM UNIT PSI. START DRL. DID NOT MAKE ANY HOLE. SHUT DOWN W/ FOAM UNIT. RD DRL EQUIP.</p>

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:30 - 17:00	4.50	DRLOUT	31	I	P		POOH W/ 224 JT. LD PUMPED OFF BIT SUB. PU 3 1/8 OVER SHOT W/ 3 1/16 GRAPPLE, 3 1/8 OS EXT, 3 1/8 DRAIN SUB, BS, XO, 6' PUP JT. RIH W/ 194 JTS. EOT @ 6130'. SWFW. E.
10/7/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. PINTCH POINTS.
	7:00 - 9:00	2.00	DRLOUT	31	I	P		SICP = 1080 PSI. OPEN WELL T/ FBT. BLOW WELL DOWN. PUMP 20 BBLS T/ CONT WELL W/ RIG PUMP. OPEN WELL, CONT RIH F/ 6130'. TAG FILL @ 7123'
	9:00 - 10:30	1.50	DRLOUT	31	B	P		RU DRL EQUIP. BRK CONV CIRC W/ FU. WASH DOWN T/ FISH TOP @ 7138'. WORK OS OVER FISH. LATCH ON T/ FISH. SET DOWN ON FISH SEVERAL TIMES. CIRC WELL CLEAN. STD BACK DRL EQUIP.
	10:30 - 16:00	5.50	DRLOUT	31	I	P		POOH W/ 224 JTS. LD FISHING EQUIP & FISH. (BTM 1/2 POBS & MILL) PU 3 7/8, POBS & 1.875 XN NIP. RIH W/ 194 JTS. EOT @ 6130'. SWIFN.
10/8/2013	6:45 - 7:00	0.25	DRLOUT	48		P		HSM. HIGH PSI LINES WHILE FOAMMING.
	7:00 - 8:30	1.50	DRLOUT	31	I	P		SICP = 1050 PSI. BLW WELL DOWN T/ FBT. CONT RIH F/ 6130' TAG W/ 30 JTS @ 7123'.
	8:30 - 8:30	0.00	DRLOUT	44	C	P		RU DRL EQUIP & FU. BRK CONV CIRC. 1hr t/ get circ. DRL OUT 21' SAND AND ISO PLUG. CIRC WELL W/ FU. SHUT DOWN. CONT RIH. TAG FILL @ 9527'. CO T/ PBTD @ 9563'. CIRC WELL CLEAN. RD DRL EQUIP.
	8:30 - 17:30	9.00	DRLOUT	31	I	P		POOH, LD 26 JTS TBG. PU 4 1/16 TBG HNGR. LAND TBG W/ KB =====> 14.00 HNGR =====> .83 275 JTS 23/8 L-80 =====> 8702.97 1.875 XN & POBS =====> 2.20 EOT @ 8720' ND BOP. NUWH. DROP BALL. RU FU T/ TBG. PUMP BIT OFF W/ 1150 PSI. PURGE CSG. OPEN TBG T/ FBT. WELL DIED AFTER 1hr. SWIFN. RD RIG. RAC OUT EQUIP.

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-25G3CS BLUE	Wellbore No.	OH
Well Name	NBU 921-25G3CS	Wellbore Name	NBU 921-25G3CS
Report No.	1	Report Date	9/16/2013
Project	UTAH-LUNTAH	Site	NBU 921-25J2 PAD
Rig Name/No.		Event	RECOMPL/RESEERVE/ADD
Start Date	7/30/2013	End Date	10/8/2013
Spud Date	1/5/2011	Active Datum	RKB @4,944.00usft (above Mean Sea Level)
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1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	6,179.0 (usft)-7,110.0 (usft)	Start Date/Time	9/16/2013 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	23	End Date/Time	9/16/2013 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	92	Net Perforation Interval	25.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	3.68 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/16/2013 12:00AM	WASATCH/			6,179.0	6,180.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc./Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/16/2013 12:00AM	WASATCH/			6,225.0	6,227.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,245.0	6,247.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,508.0	6,509.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,525.0	6,526.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,540.0	6,541.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,547.0	6,548.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,557.0	6,558.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,572.0	6,573.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,771.0	6,772.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,847.0	6,848.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,868.0	6,869.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,905.0	6,906.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,921.0	6,922.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,929.0	6,930.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,956.0	6,957.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,967.0	6,968.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			6,986.0	6,987.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			7,035.0	7,036.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			7,065.0	7,066.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			7,074.0	7,075.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
9/16/2013 12:00AM	WASATCH/			7,083.0	7,084.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/16/2013 12:00AM	WASATCH/			7,109.0	7,110.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic

